

Issue Date: January 2008

SERVICE MANUAL



Specifications

Power Output:	120W RMS into 8 Ohms 200W RMS into 4 Ohms
Input Impedance:	Input 1 (balanced) 20 kOhm Inputs 2-7 20 kOhm Tape Input 20 kOhm
THD (unweighted):	< 0.001% 1 kHz at 80% of rated power < 0.01% 20 Hz - 20 kHz at 80% of rated power
Frequency Response:	10 Hz - 50 kHz +/- 1 dB
Signal to Noise Ratio:	> 93 dB
Power amp damping factor:	> 110 at 1 kHz
Max. Power Consumption:	800W
Min. Power Consumption:	Active (no signal) 70W Standby 7W
Bass:	Max bass boost/cut +/- 10 dB at 10 Hz
Treble:	Max treble boost/cut +/- 7.5 dB at 20 kHz
Dimensions (H x W x D):	115 x 430 x 385mm (4.5 x 16.9 x 15.2")
Weight:	15.0kg (33Lbs)

AP23462/1

CAMBRIDGE AUDIO AZUR 840A v2 AMPLIFIER SERVICE MANUAL

TABLE OF CONTENTS

Specifications.....	1
Table of Contents.....	2-3
Front Panel Control Details.....	4
Rear Panel Connection Details.....	5
Remote Control Details.....	6
Safety Precautions & Important Notes.....	7
Exploded Diagram.....	8
Exploded Diagram Parts List.....	9
Main Input Circuit Diagram.....	10
Mains Circuit Board Bill of Material.....	11
PSU Circuit Board – Circuit Diagram.....	12
PSU Circuit Board Bill of Material.....	13
Front Panel Circuit Board – Micro Controller.....	14
Front Panel Circuit Board.....	15
Front Panel Circuit Board Bill of Material.....	16
Balanced Input Circuitry.....	17
Input Circuit Board – Input Buffers.....	18
Input Circuit Board – Input Gain.....	19
Input Circuit Board – Input Switching.....	20
Input Circuit Board – Pre Amp Output.....	21
Input Circuit Board.....	22
Input Circuit Board Bill of Material.....	23
Pre Amp Circuit Board – Headphone Driver.....	24
Pre Amp Circuit Board – Output Buffer.....	25
Pre Amp Circuit Board – Relay Logic.....	26
Pre Amp Circuit Board – Right Channel Relay Coils.....	27
Pre Amp Circuit Board – Tone / Balance Control.....	28
Pre Amp Circuit Board – Volume Ladder.....	29
Pre Amp Circuit Board & Volume Control Circuit Board.....	30
Pre Amp Circuit Board Bill of Material.....	31

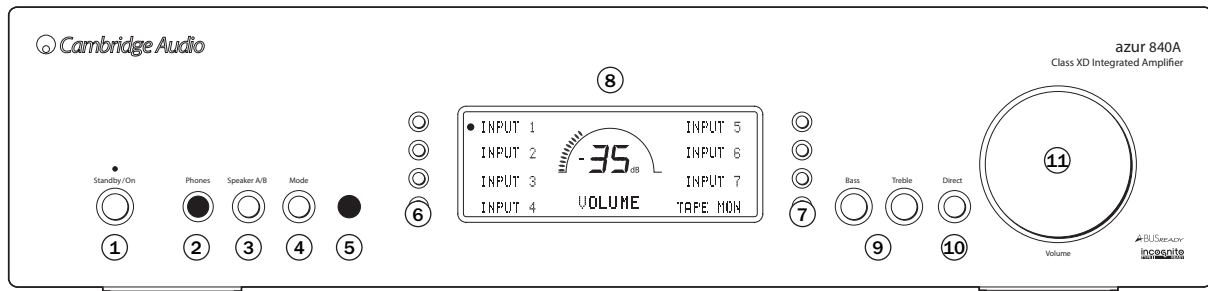
CAMBRIDGE AUDIO AZUR 840A v2 AMPLIFIER SERVICE MANUAL

TABLE OF CONTENTS Cont.

Pre Amp Circuit Board Bill of Material Cont.....	32
Left Power Amp Circuit Board – Power Supply.....	33
Left Power Amp Circuit Board – Circuit.....	34
Left Power Amp Circuit Board – Protection Circuitry.....	35
Left Power Amp Circuit Board.....	36
Left Power Amp Circuit Board Bill of Material.....	37
Left Power Amp Circuit Board Bill of Material Cont.....	38
Right Power Amp Circuit Board – Power Supply.....	39
Right Power Amp Circuit Board – Left Channel Amp.....	40
Right Power Amp Circuit Board – Protection Circuitry.....	41
Right Power Amp Circuit Board.....	42
Right Power Amp Circuit Board Bill of Material.....	43
Right Power Amp Circuit Board Bill of Material Cont.....	44
Speaker Circuit Board – Audio.....	45
Speaker Circuit Board – Relays.....	46
Speaker Circuit Board – Short Circuit Test.....	47
Speaker Circuit Board.....	48
Speaker Circuit Board Bill of Material.....	49
ABUS Hub.....	50
ABUS Circuit Board.....	51
ABUS Hub Circuit Board Bill of Material.....	52
ABUS Hub Circuit Board Bill of Material Cont.....	53
IC Details.....	54-55

Cambridge Audio Azur 840A v2 Amplifier

Front panel controls



① Standby/On

Switches the unit between Standby mode (indicated by dim power LED) and On (indicated by bright power LED). Standby is a low power mode where the power consumption is less than 10 Watts. The unit should be left in Standby mode when not in use.

Note: As default the 840A V2 ramps the volume up or down when switched on and when going into Standby mode. This feature can be turned off if desired; please refer to the 'Amplifier setup' section of this manual for more information.

② Phones

Allows for the connection of stereo headphones with a ¼" Jack plug. Headphones with an impedance of between 32 and 600 ohms are recommended. When the headphones are connected, the loudspeaker relays are released switching off the output to the loudspeakers (speakers A and B).

③ Speaker A/B

Press to scroll through the speaker sets connected to the loudspeaker terminals on the back panel (speaker sets A, B or A and B). This can be used for listening to an extra set of loudspeakers in another room.

Please note that care should be taken when choosing speakers if two loudspeakers are going to be used on each channel. If the combined resistance measured on the loudspeaker terminals is too low the amplifier may not switch out of Standby mode until a suitable load resistance is detected. For more information refer to the CAP5 section of this manual.

Note: When using one pair of speakers, use speakers with a nominal impedance of between 4-8 ohms. When using two pairs of speakers, use speakers with a nominal impedance of between 6-8 ohms each.

④ Mode

Press to switch between Volume and Balance modes. Press and hold to enter the 840A V2 System Configure menu.

⑤ Infrared sensor

Receives IR commands from the supplied Azur remote control. A clear unobstructed line of sight between the remote control and the sensor is required.

⑥ & ⑦ Input select buttons

Push the appropriate input selection button to select the source component that you wish to listen to (highlighted by a solid circle on the display). The signal selected is also fed to the Tape Out sockets so that it may be recorded. The input should not be changed whilst recording (but the recorded signal can be checked using the tape input Tape Monitor).

⑧ Display

LCD used to control the 840A V2. Please refer to the 'Operating instructions' and 'Amplifier setup' section of this manual for more information.

⑨ Bass and Treble

Press to release and rotate to allow subtle adjustments to the tonal balance of the sound.

⑩ Direct

This control gives the audio signal a more direct path to the power amplifier stage of your amplifier, bypassing the tone control circuits for the purest possible sound quality.

The Bass/Treble icon (B: T) appears in the display when the bass and treble circuit is active (in circuit) and is not present when they are bypassed.

Note: Direct can be set on or off individually for each input. This setting is recalled each time a source is selected.

⑪ Volume

Use to increase/decrease the level of the sound from the outputs of the amplifier. This control affects the level of the loudspeaker output, the pre-amp output and the headphone output. It does not affect the Tape Out connections.

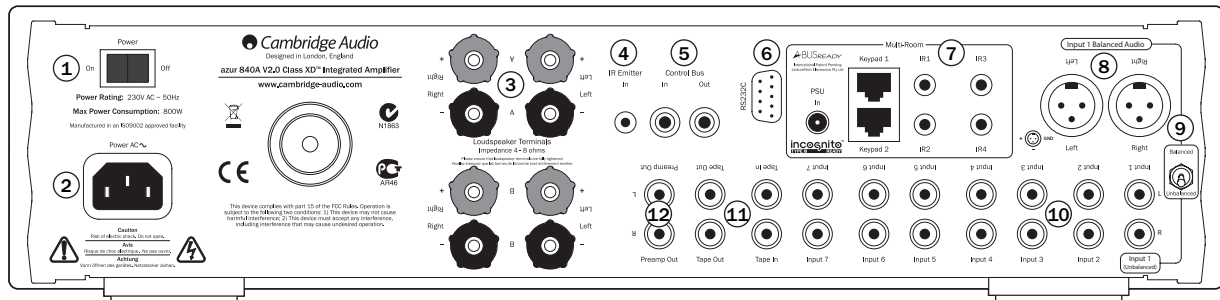
As the 840A V2 uses a very high quality passive resistor ladder switched by relays to achieve volume and balance, audible control clicks can be heard from the unit when the volume or balance is adjusted.

The Volume control is also used in navigating the 840A V2 System Configure menus on the front panel display.

Please refer to the 'Operating instructions' section of this manual for more information on some functions of these buttons.

Cambridge Audio Azur 840A v2 Amplifier

Rear panel connections



1 Power On/Off

Switches the unit on and off.

2 AC power socket

Once you have completed all connections to the amplifier, plug the AC power cable into an appropriate mains socket then switch on. Your amplifier is now ready for use.

3 Loudspeaker terminals

Two sets of loudspeaker terminals are available, A (main loudspeaker terminals) and B (secondary loudspeaker terminals). Both sets of speakers can be turned on and off independently. Connect the wires from your left channel loudspeaker to the LEFT + & - terminals, and the wires from the right channel loudspeaker to the RIGHT + & - terminals. In each case, the red terminal is the positive output and the black terminal is the negative output.

Care should be taken to ensure no stray strands of wire short the speaker outputs together. Please ensure that the loudspeaker terminals have been tightened completely to provide a good electrical connection. It is possible for the sound quality to be affected if the screw terminals are loose.

Note: When using one pair of speakers, use speakers with a nominal impedance of between 4-8 ohms. When using two pairs of speakers, use speakers with a nominal impedance of between 6-8 ohms. Please also note that when multiple speakers are connected across the amplifier's outputs, the load (as seen by the amplifier) is reduced. This will make the amplifier work harder, and hotter!

4 IR (Infrared) Emitter In

Allows modulated IR commands from multi-room systems to be received by the amplifier. Commands received here are not looped out of the Control Bus. Refer to the 'Custom installation' section for more information.

5 Control Bus

In - Allows un-modulated commands from multi-rooms systems or other components to be received by the unit.

Out - Loop out for control bus commands to another unit. Also allows the 840A V2 to control some Cambridge Audio units.

6 RS232C

The RS232C port allows external serial control of the 840A V2 for custom install use. A full command set is available on the Cambridge Audio website at www.cambridge-audio.com. This port can also be used by Cambridge Audio service personnel for software updates.

7 A-BUS™ Ready / Incognito Ready™ multi-room outputs

PSU - Connect an Incognito P55 to supply power to the connected multi-room keypads/speakers.

Keypad 1/2 - Connect one or two Incognito A-BUS KP10 keypads (or other A-BUS compatible keypads) using CAT5/5e cable. Incognito AS10 Active Ceiling Speakers can also be connected here.

IR - Four IR outputs for remote control of source equipment.

Please refer to the 'Multi-Room' section of this manual for more information on connections and set-ups.

8 Input 1 Balanced Audio

Input 1 features either unbalanced (phono/RCA) or balanced (XLR) connections. Either type may be used but not both at the same time. The balanced connection is the higher quality option and can reject noise and interference in the cable when used with other equipment that supports this function. An XLR connector is wired Pin 1 - Ground; Pin 2 - Hot (in-phase); Pin 3 - Cold (phase-inverted).

Use the Balanced/Unbalanced switch (Item 9) to select the connection type you wish to use. When using either the balanced or unbalanced input, make sure that no cables or equipment are connected to the unused input, as this may degrade operation. The unused input does not require to be terminated and this should not be done.

9 Input 1 Balanced/Unbalanced switch

Use to select the connection type for Input 1.

10 Inputs 1-7

These inputs are suitable for any 'line level' source equipment such as CD players, DAB or FM/AM tuners etc.

Note: These inputs are for analog audio signals only. They should not be connected to the digital output of a CD player or any other digital device.

11 Tape/Rec In/Out

Connect to a tape deck or to the analog output sockets on a MiniDisc, portable digital music player or CD recorder using an interconnect cable from the recorder's Line Out sockets to the amplifier's Tape In sockets.

The Tape Input circuit of the 840A V2 is a "monitor" type, different from the other 7 inputs. For the 7 normal inputs, the source selected for listening to will be sent out of the Tape Out for recording. The source currently being listened to and (optionally) recorded is then shown on the front panel display.

However, when the Tape Input is selected a solid circle will appear beside TAPE MON indicating that the Tape Input is now being listened to with a different source being sent out of the Tape Out for recording. The recording source is also shown by a solid circle by the selected input and can be changed by pressing the other source buttons. To switch Tape Monitor off, simply press the Tape Mon input select button again, toggling this function off.

This feature is most useful when using 3-head analog cassette decks which allow the signal being recorded to be played back live off tape (via a 3rd head) whilst it is simultaneously recorded. It is then possible by toggling the Tape Monitor input on and off to compare directly in real time the original and recorded signal so that adjustments to the recording parameters of the tape machine can be made (consult the manual of your 3-head analog cassette deck for full details).

12 Preamp Out

Connect these sockets to the inputs on an external power amplifier(s) or active subwoofers etc.

Cambridge Audio Azur 840A v2 Amplifier

Remote control

The 840A V2 is supplied with an Azur Navigator remote control that operates both this amplifier and Cambridge Audio Azur CD players. Insert the supplied AAA batteries to activate.

The functions relevant to the amplifier are as follows:

Standby/On

Switches the amplifier between On and Standby mode.

Numerical buttons 1-8

Press to change the input source to the amplifier. Button 8 toggles Tape Monitor on/off.

Bright

Adjust the backlight of the front panel display; bright, dim or off.

Mode

Press to switch between Volume and Balance modes.

Mute

Mutes the audio on the amplifier. The mute mode is indicated by MUTE appearing and the volume level being replaced by two flashing dashes in the display. Press again to cancel mute.

Volume

Increase or decrease the volume of the amplifier output.

The functions relevant to a connected Azur CD player are as follows:

Open/Close

Opens and closes the disc tray.

Play / Stop / Pause

Press the relevant button to play, stop or pause the CD.

Skip

Right Skip - Press once to skip forward by one track on the CD. Press and hold to skip forwards through tracks.

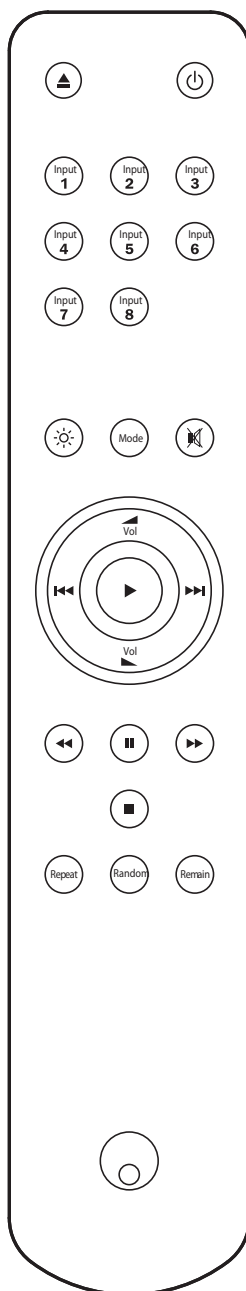
Left Skip - Press once to skip backward by one track on the CD. Press and hold to skip backwards through tracks.

Search

Press and hold to search within the selected track. Right button to fast forward, left button to rewind.

Repeat, Random, Remain

Refer to the 'Operating instructions' section of your CD player manual for information on the functions of these buttons.



iPod™ compatibility

The 840A V2 remote can also control the basic functions of Apple iPod's when mounted in Cambridge Audio's iPod docks, Apple's Universal Dock or other docks compatible with the Apple Remote. Refer to your dock's instruction manual on how to connect it to your amplifier.

To use the Azur remote to control the docked iPod, hold down the Input 7 button whilst pressing one of the following buttons:

Play/Pause

Press to play the iPod, press again to pause play.

Skip

Press once to skip forwards or backwards one track.

Menu

Press to return to the iPod main menu.

Cambridge Audio Azur 840A v2 Amplifier

SAFETY PRECAUTIONS & IMPORTANT NOTES

1. Check that the rear of the product indicates the correct supply voltage for your area.



2. The lightning flash with the arrowhead within an equilateral triangle is intended to alert the user or service agent to the presence of dangerous voltages within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



3. The exclamation point within an equilateral triangle is intended to alert the user or service agent to the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the appliance.

4. This product complies with EEC Low Voltage (73/23/EEC) and Electromagnetic Compatibility (89/336/EEC) Directives when used and serviced in accordance with this manual. For continued compliance all components marked safety and EMC critical must only be replaced by Cambridge Audio approved parts.

5. Any unauthorised design alterations or additions will void the manufacturer's warranty; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.

6. When servicing, care should be taken to observe the original routing and dressing of the leads and it should be confirmed that they have been returned to normal after re-assembly.

Notes on chip component replacement

Never reuse a component that has been removed from a PCB

Notice that the minus side of a tantalum capacitor may be damaged by heat

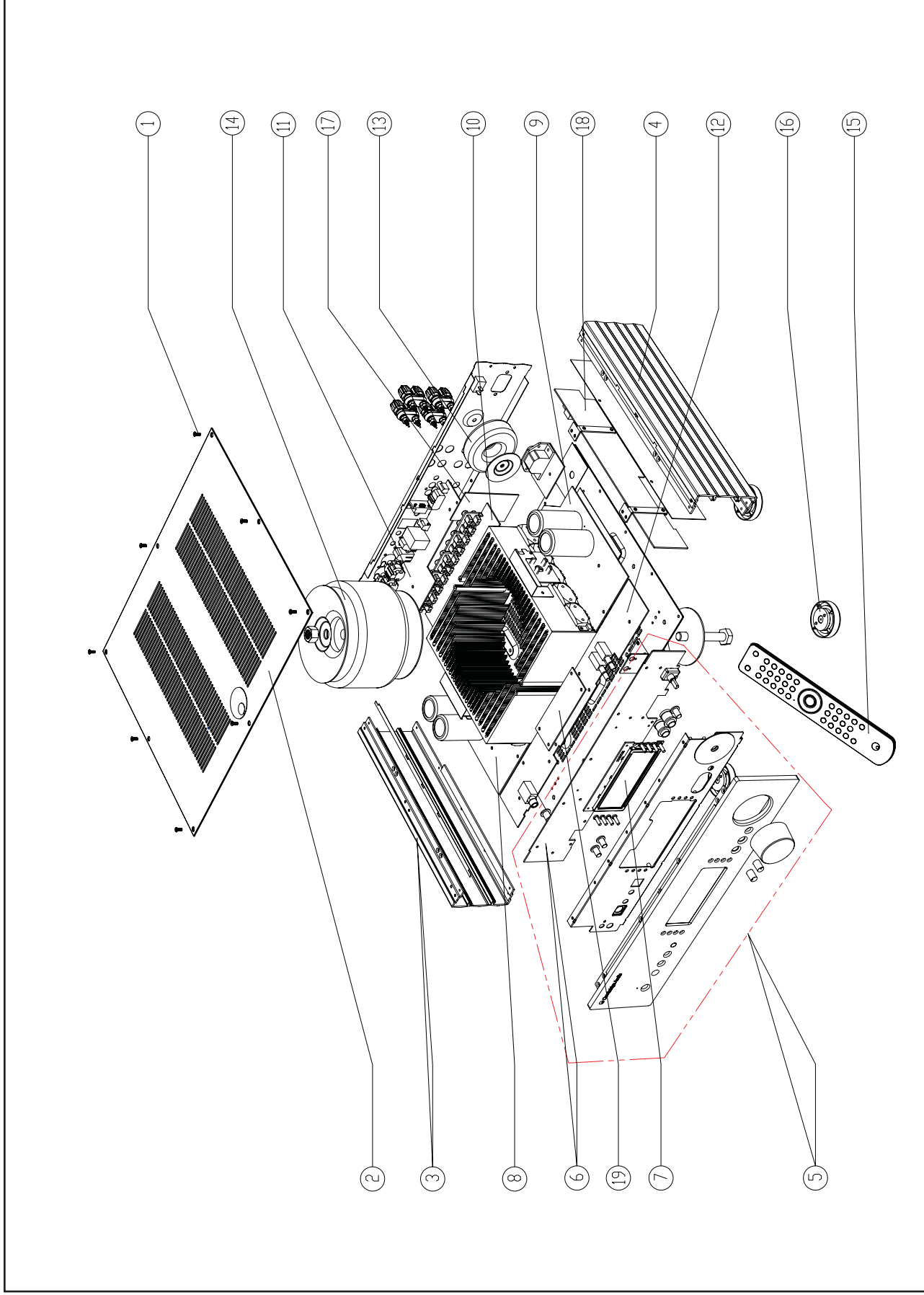
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Exploded Diagram

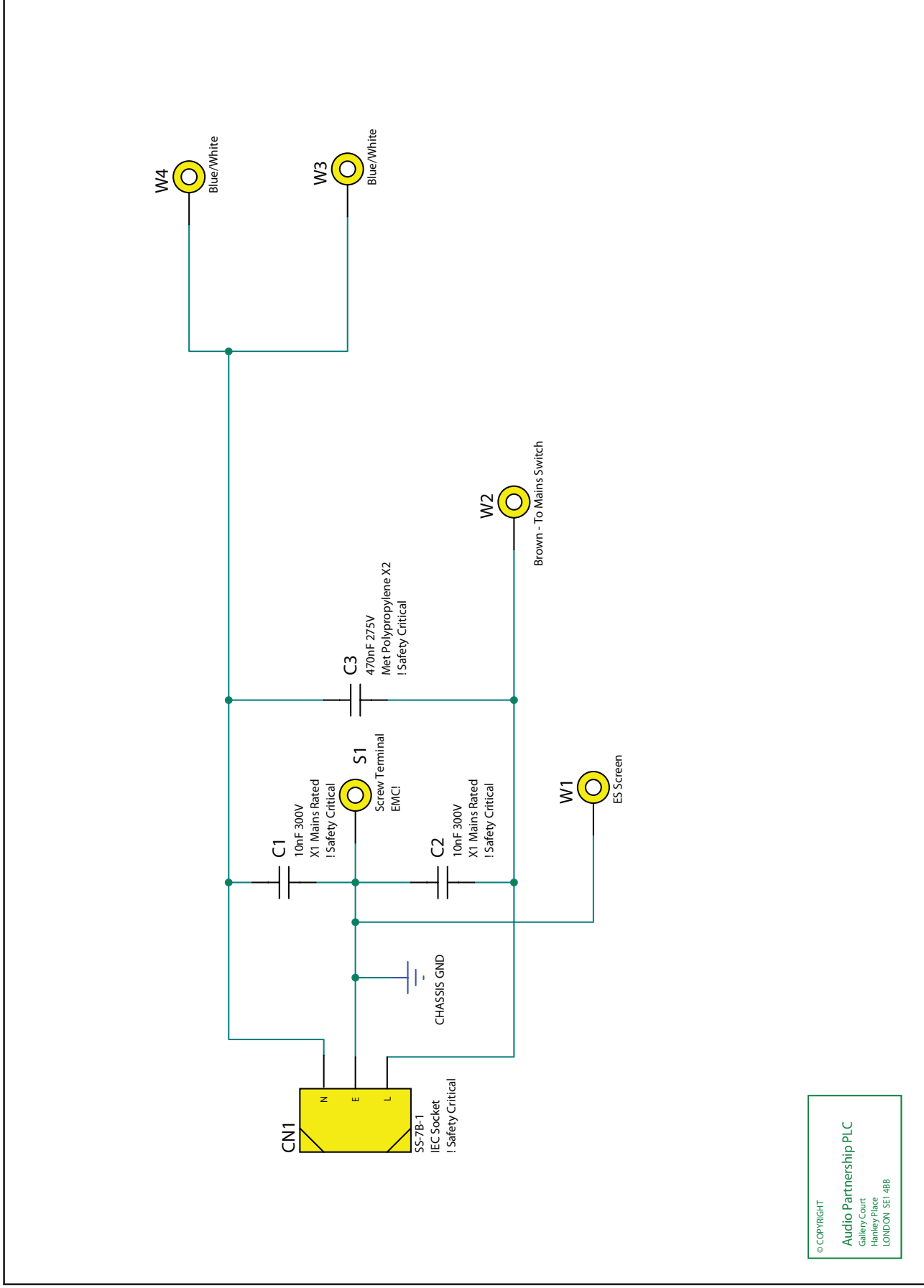
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Drawing ref:	AP Part number	Factory ref:	Description
1	PY1228	7003-008010E002	SCREW M3*8 M/C 1/K TORX RECESS ZINC-PT
1	PY1229	7003-008010E001	SCREW M3*8 M/C 1/K TORX RECESS BLACK-PT
2	PY1125	6574-150009E000-01	Top panel black painted (same as 840A)
2	PY1126	6574-150009E000-02	Top panel silver painted (same as 840A)
3	PY1394	6574-150035E000-01	840A v2 side panel black painted (LEFT)
3	PY1394	6574-150035E000A01	840A v2 side panel silver painted (LEFT)
4	PY1127	6574-150013E000-01	840A side panel black painted
4	PY1128	6574-150013E000A01	840A side panel silver painted
5	PY1392	8584-015040E301	Azur 840A V2 SILVER FRONT PANEL ASSY REV A
5	PY1391	8584-015030E301	Azur 840A V2 BLACK FRONT PANEL ASSY REV A
6	PY1396	9484-015002E112	Azur-840A V2 FRONT CONTROL PCBA REV B<T-TYPE> (without display)
7	PY1393	4006-000040E000	840E LCD DISPLAY MODULE (MBCF0004B SERIES)(DFSTN)
8	PY1410	9484-015003E091	Azur 840A V2 LEFT POWER AMP PCBA REV A
9	PY1406	9484-015002E091	Azur 840A V2 RIGHT POWER AMP PCBA REV A
10	PY1403	9484-015001E341	Azur-840A V2 AMP INPUT PCB A
11	PY1398	9484-015001E041	Azur-840A V2 ABUS HUB PCBA REV A
12	PY1401	9484-015001E331	Azur-840A V2 PRE AMP PCBA AP20760/2 REV A
13	PY1119	3200-074051E001	Standby toroid 230V/50Hz 7.5VAC750mA 17VAC*2
13	PY1120	3200-077811E000	Standby toroid 115V/50Hz 7.5VAC750mA 17VAC*2
14	PY1019	3200-053044E000	Toriod 230V/50Hz 36.5AACx4 @ 5.5A T1-053044C
14	PY1020	3200-053045E000	Toriod 115V/50Hz 36.5AACx4 @ 5.5A T1-0853045C
15	PY1411	9805-084001E001	Azur 840A V2 REMOTE CONTROL ASSY REV A
16	PY1122	6074-150004E000	Azur 840A plastic foot Black
16	PY1124	6074-150004E000A01	Azur 840A plastic foot Silver
-	PY1262	6600-070166E000	Azur 840A FOOT PAD (AP 16850*)
17	PY1404	9484-015001E541	Azur-840A V2 SPEAKER PCB ASSY REV A
-	PY1118	2331-004909E301	Speaker binding post (black and red set)
18	PY1409	9484-015002E141	Azur-840A V2 230V PSU POWER CONTROL PCBA REV A
19	PY1399	9484-015001E311	Azur-840A V2 VOLUME CONTROL PCBA REV A AP20760E

All spare parts should be ordered from AP Hong Kong office.

Exploded Diagram Parts List

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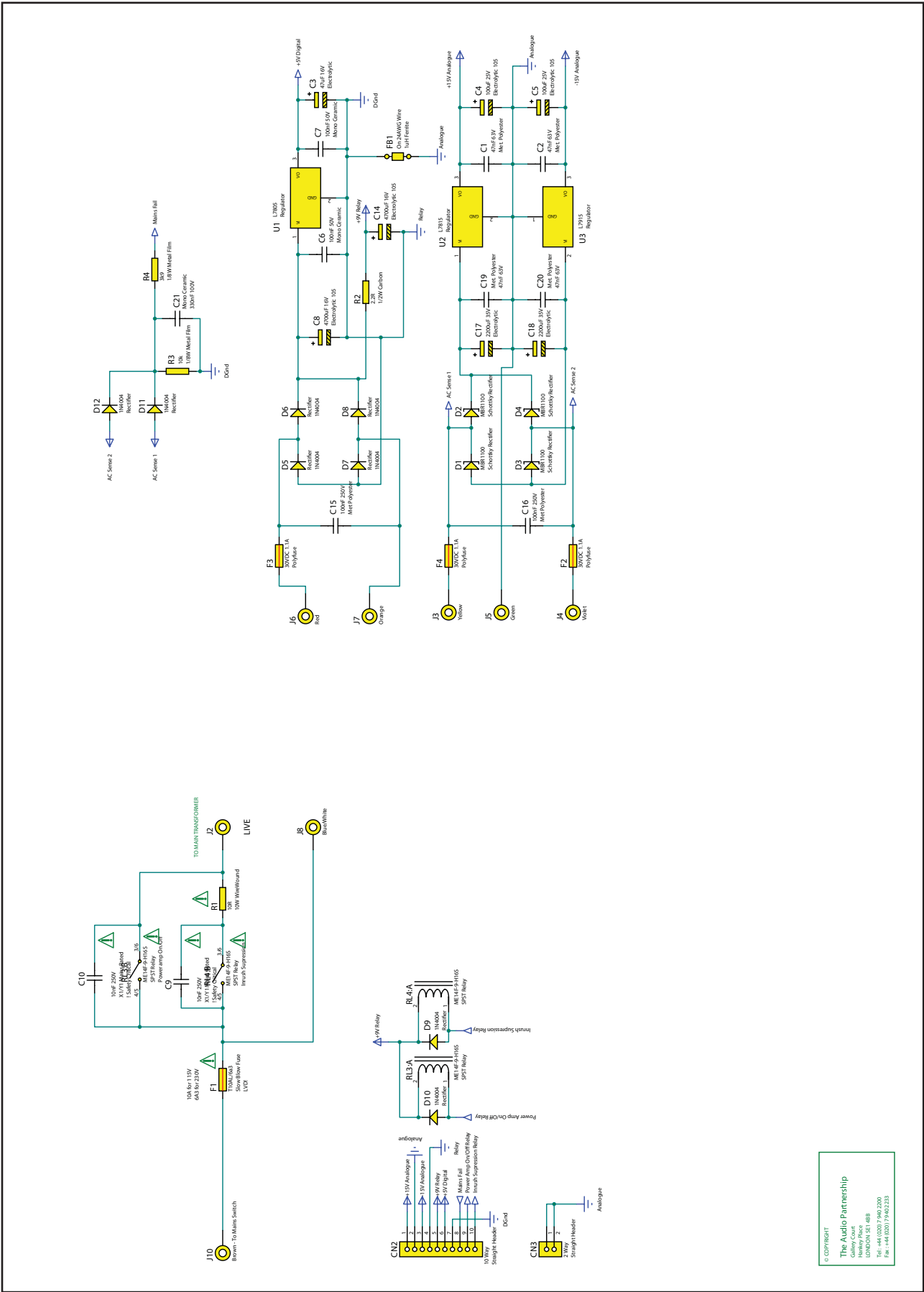
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Cambridge Audio Azur 840A v2 Mains PCB Assembly BOM - (AP20775/1)

Value	Description	Qty	Component ID	Factory P/N	Tolerance	AP P/N
CAPACITORS						
10nF 300V	X1 Mains Rated	2	C1, C2		10%	
470nF 275V	Met Polypropylene X2	1	C3	CMKS474M275Rxxxx	20%	
CONNECTORS						
3 Pin	IEC Socket	1	CN1	SS-7B-1		
WIRE TERMINALS						
	Pressed Eyelet	4	W1-W4			
MISCELLANEOUS						
M4	Solder Tag	1	CPI			
M3x10mm MC	P/H Black Screw	2	SC1, SC2			
140mm Long +5mm Strip/Tin each end	18 AWG Green/Yellow Insulated Wire	1	WIRE1		+/-1mm	
	Ex Tooth Lock Washer	2	WS1, WS2			
M3	Hex Nut 5.5 x 2.4mm	2	WS3, WS4			

Note: resistors, capacitors and other 'generic' electronic components are not usually stocked by the manufacturer. Please obtain these locally.

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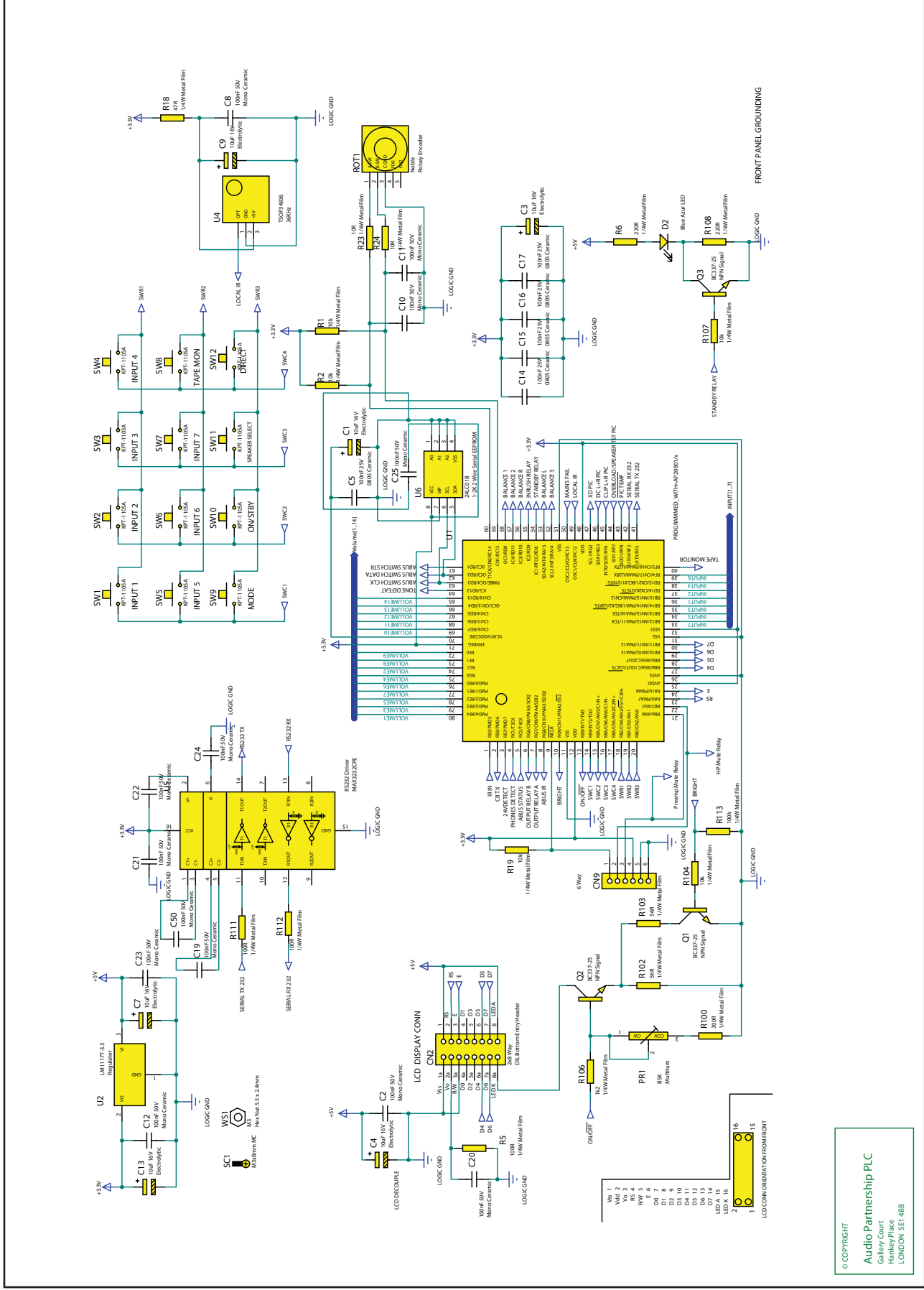


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Cambridge Audio Azur 840A v2 PSU PCB Assembly BOM - (AP20785/1)						
Value	Description	Qty	Component ID	Factory P/N	Tolerance	AP P/N
RESISTORS						
2.2R	1/2W Carbon	1	R2		10%	
10R	10W WireWound	1	R1		5%	
3k9	1/8W Metal Film	1	R4		1%	
10k	1/8W Metal Film	1	R3		1%	
CAPACITORS						
10nF 250V	X1/Y1 Mains Rated	2	C9, C10		20%	
47nF 63V	Met. Polyester	4	C1, C2, C19, C20		10%	
100nF 50V	Mono Ceramic	2	C6, C7		10%	
100nF 250V	Met Polyester	2	C15, C16	CMEB104M250Rxxxx	20%	
330nF 100V	Mono Ceramic	1	C21		10%	
47uF 16V	Electrolytic	1	C3		20%	
100uF 25V	Electrolytic 105	2	C4, C5		20%	
2200uF 35V	Electrolytic	2	C17, C18		20%	
4700uF 16V	Electrolytic 105	2	C8, C14		20%	
CONNECTORS						
10 Way	Straight Header	1	CN2	B10B-XH-A		
2 Way	Straight Header	1	CN3	B2P-VH		
DIODES						
100V 1A	Schottky Rectifier	4	D1-D4	MBR1100		
400V 1A	Rectifier	8	D5-D12	1N4004		
FUSES						
T10AL/6a3	Slow Blow Fuse	1	F1			
	Fuse Holder Base	1	F1	PTF78 (or equivalent)	20mm Pitch	
	Fuse Holder Cover	1	F1	PTF78 (or equivalent)	20mm Pitch	
30VDC 1.1A	Polyfuse	3	F2-F4			
INDUCTORS						
1uH Ferrite	On 24AWG Wire	1	FB1	FB-35608		
INTEGRATED CIRCUITS						
+5V	Regulator	1	U1	L7805		
+15V	Regulator	1	U2	L7815		
-15V	Regulator	1	U3	L7915		
RELAY						
9V 16A	SPST Relay	3	RL1, RL3, RL4	ME14F-9-H16S		PY1154

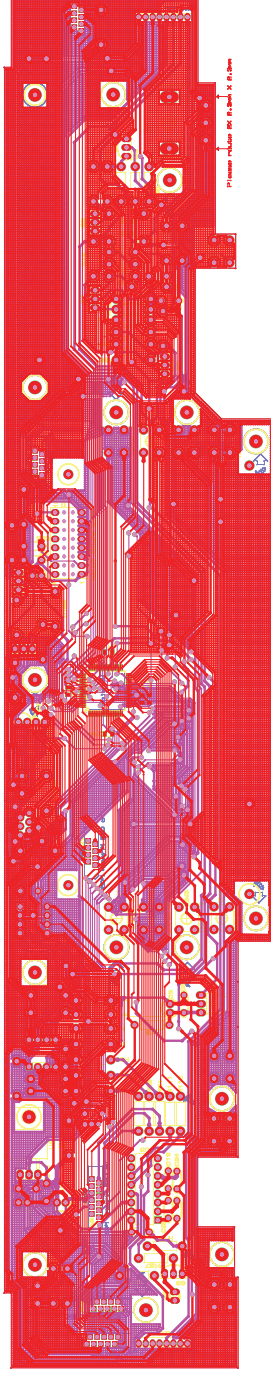
Note: resistors, capacitors and other 'generic' components are not usually stocked by the manufacturer. Please obtain these locally.

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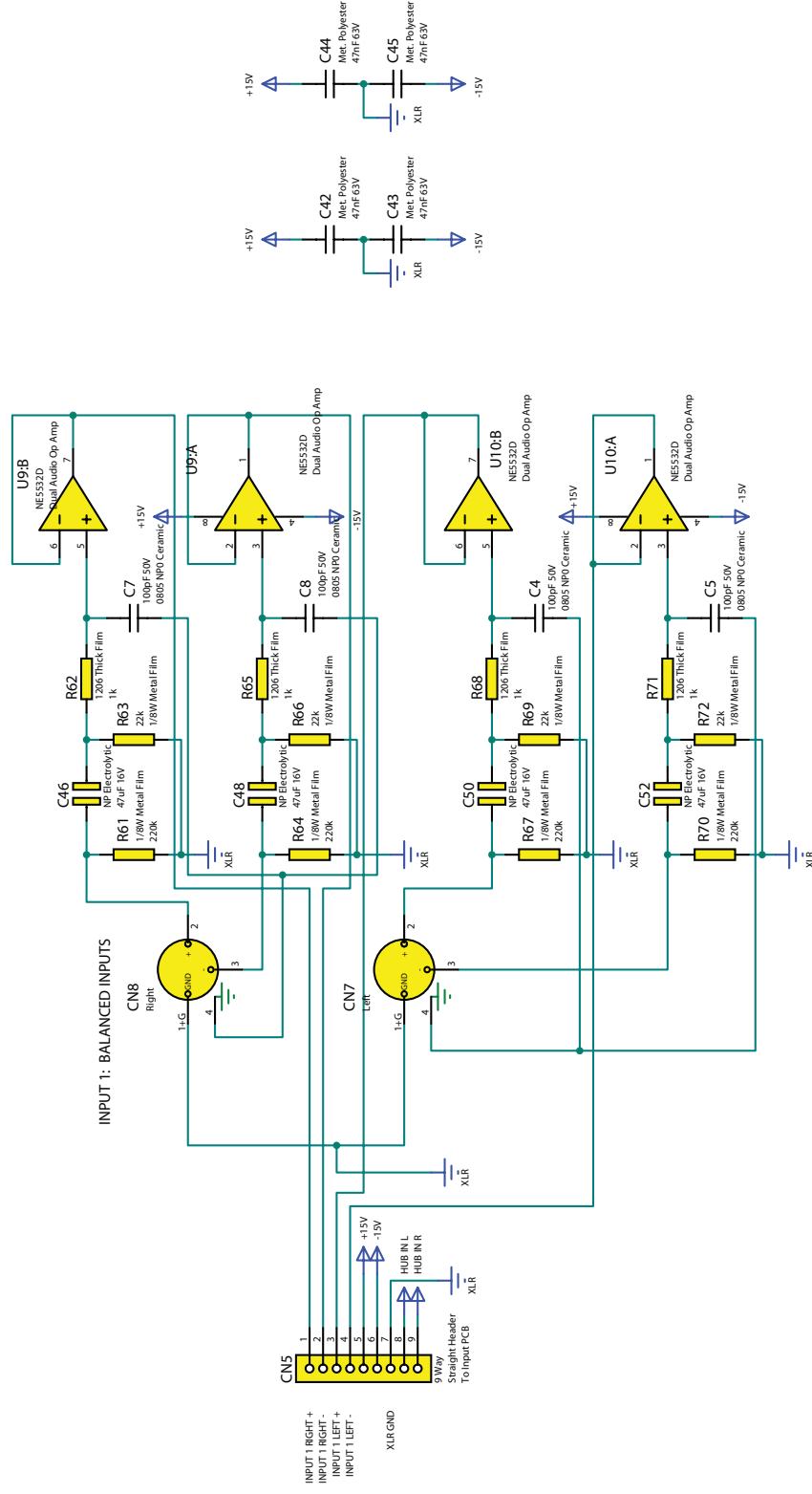


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Cambridge Audio Azur 840A v2 Front Panel PCB Assembly BOM - (AP20780/1)						
Value	Description	Qty	Component ID	Factory P/N	Tolerance	AP P/N
RESISTORS						
no fit		1	R20			
10R	1/4W Metal Film	3	R23, R24, R109		1%	
47R	1/4W Metal Film	4	R18, R29-R31		1%	
56R	1/4W Metal Film	2	R102, R103		1%	
100R	1/4W Metal Film	3	R5, R111, R112		1%	
220R	1/4W Metal Film	2	R6, R108		1%	
300R	1/4W Metal Film	1	R100		1%	
910R	1/4W Metal Film	2	R9, R17		1%	
1k	1/4W Metal Film	5	R11, R22, R25, R27, R28		1%	
1k2	1/4W Metal Film	1	R106		1%	
4k7	1/4W Metal Film	5	R3, R4, R10, R33, R39		1%	
10k	1/4W Metal Film	14	R1, R2, R7, R12, R19, R32, R34-R38, R104, R107, R110		1%	
47k	1/4W Metal Film	3	R15, R16, R21		1%	
100k	1/4W Metal Film	5	R8, R13, R14, R26, R113		1%	
RESISTORS VARIABLE						
BSK	Multiturn	1	PRI	W13296N0X0X-PA2-001	10%	
CAPACITORS						
100nF 50V	Mono Ceramic	15	C2, C6, C8, C10-C12, C18-C25, C50		10%	
100nF 25V	0805 Ceramic	5	C5, C14-C17		10%	
10uF 16V	Electrolytic	6	C1, C3, C4, C7, C9, C13		20%	
CONNECTORS						
8 Way	Right Angle Header	2	CN1, CN3	S8B-PH-KS		
2x8 Way	DIL Bottom Entry Header	1	CN2			
8 Way	FFC Connector	3	CN4-CN6	D100-SSV-08		
9 Way	FFC Connector	1	CN7	D100-SSV-9		
12 Way	FFC Connector	1	CN8	D100-SSV-12		
6 Way	IDC Programming Header	1	CN9	90325-0006		
10 Way	FFC Connector	1	CN10	D100-SSV-10		
DIODES						
no fit		1	D1			
Blue Azur LED	3mm	1	D2	HFB963M-130		PY064
75V 150mA	Signal Diode	1	D3	1N4148		
no fit		1	D4			
INTEGRATED CIRCUITS						
16 Bit Micro	64k/8k RAM (program according to service manual)	1	U1	PIC24FJ64GA008-I/PT		
3.3V 1A	Regulator	1	U2	LM1117T-3.3		PY986
Low Offset	Dual Comparator	1	U3	LM393AP		
36KHz	IR Receiver	1	U4	TSOP34836		PY755
	RS232 Driver	1	U5	MAX3232CPE		PY1397
	I-2K 2 Wire Serial EEPROM	1	U6	24LC01B		
SWITCHES						
	Tactile	12	SW1-SW12	KPT-I105A		PY043
TRANSISTORS						
45V 300mA	NPN Signal	5	Q1-Q3, Q5, Q6	BC337-25		PY214
-45V 500mA	PNP Signal	2	Q4, Q7	BC327-25		PY219
MISCELLANEOUS						
	Rotary Encoder	1	ROT1	REB161(9X7)PVB20FHINB 1-2-24E		PY1138
M3x8mm MC	P/H Black Screw	1	SC1			
M3	Hex Nut 5.5 x 2.4mm	1	WS1			

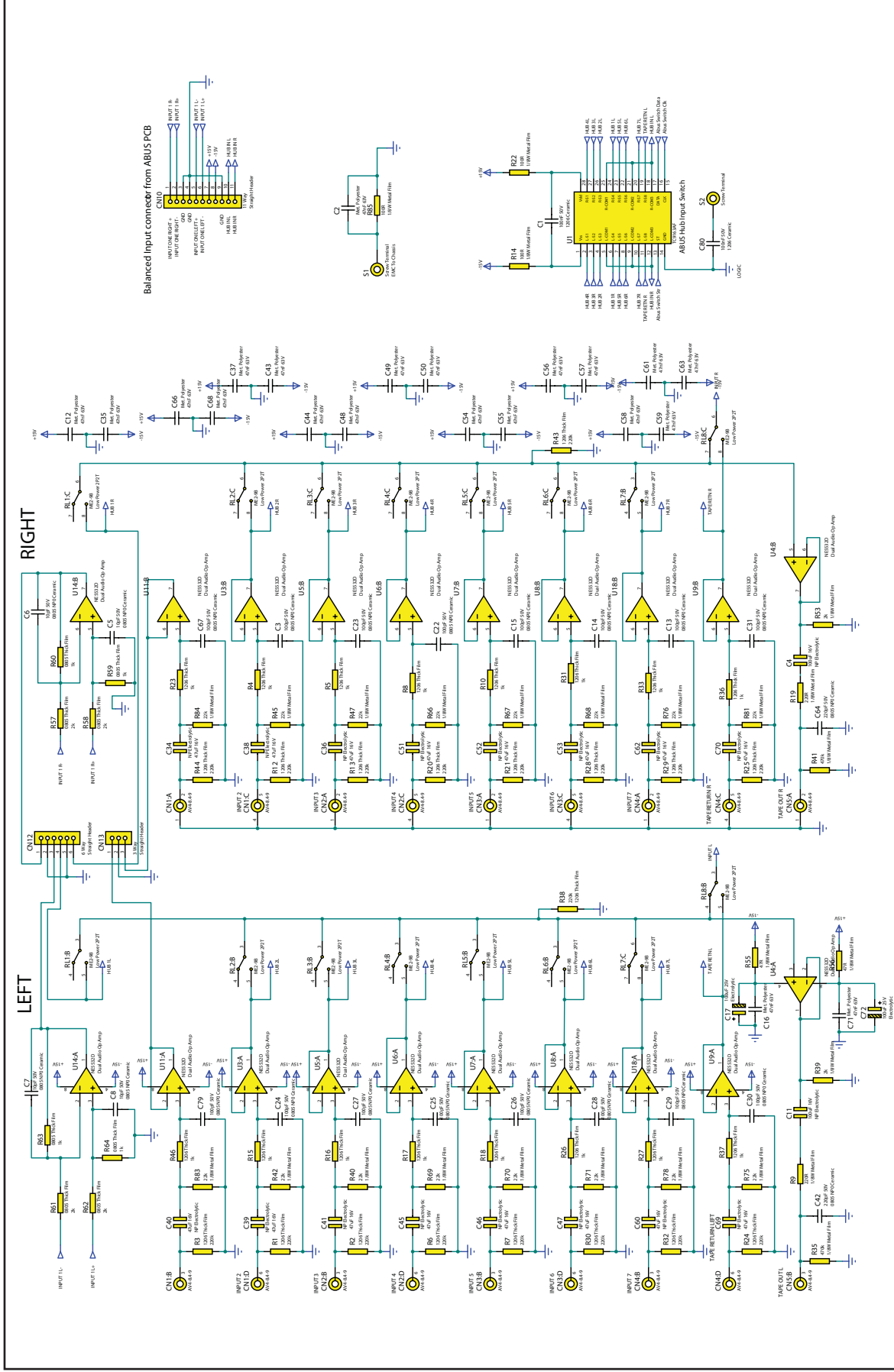
Note: resistors, capacitors and other 'generic' components are not usually stocked by the manufacturer. Please obtain these locally.

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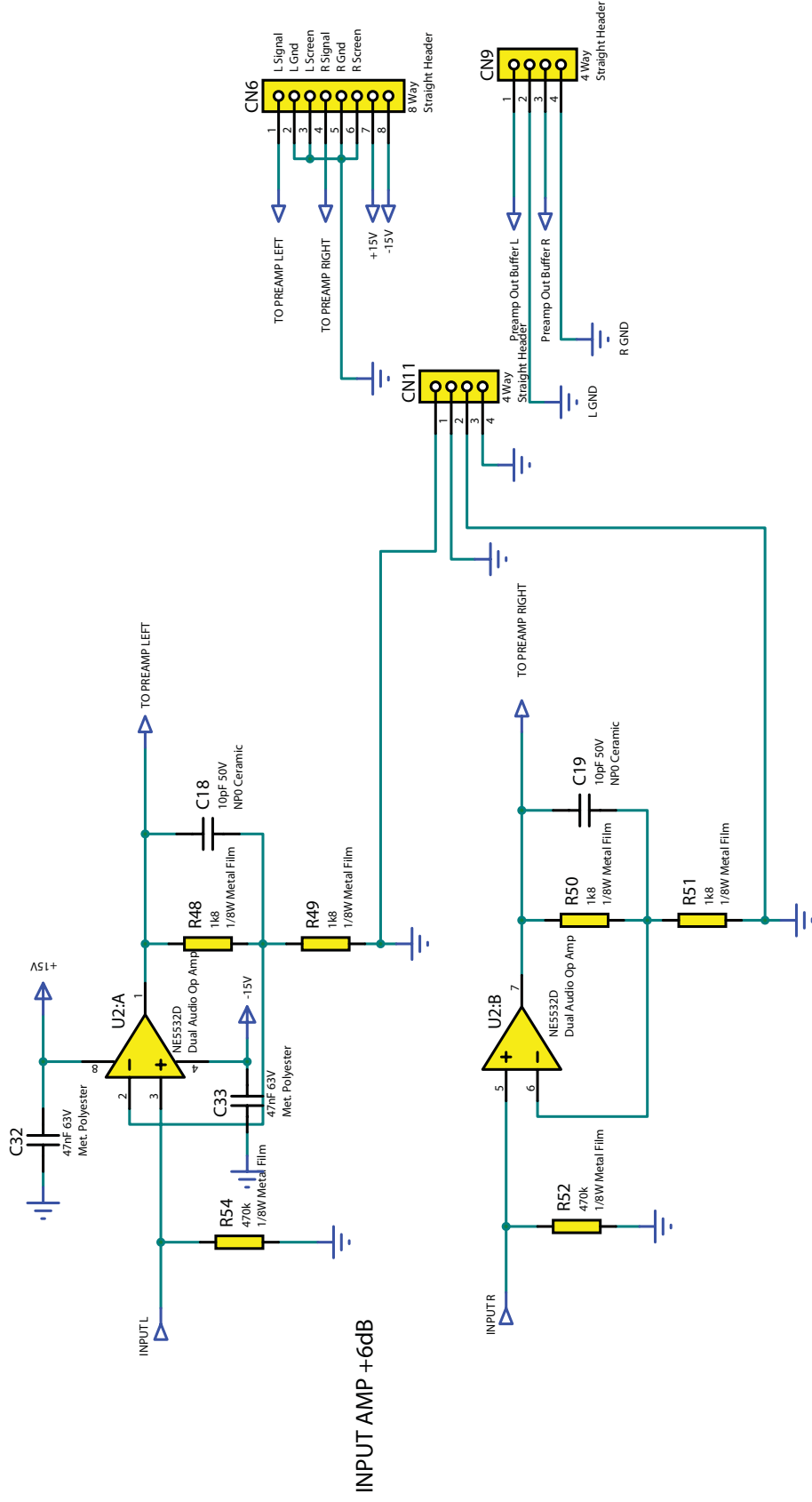
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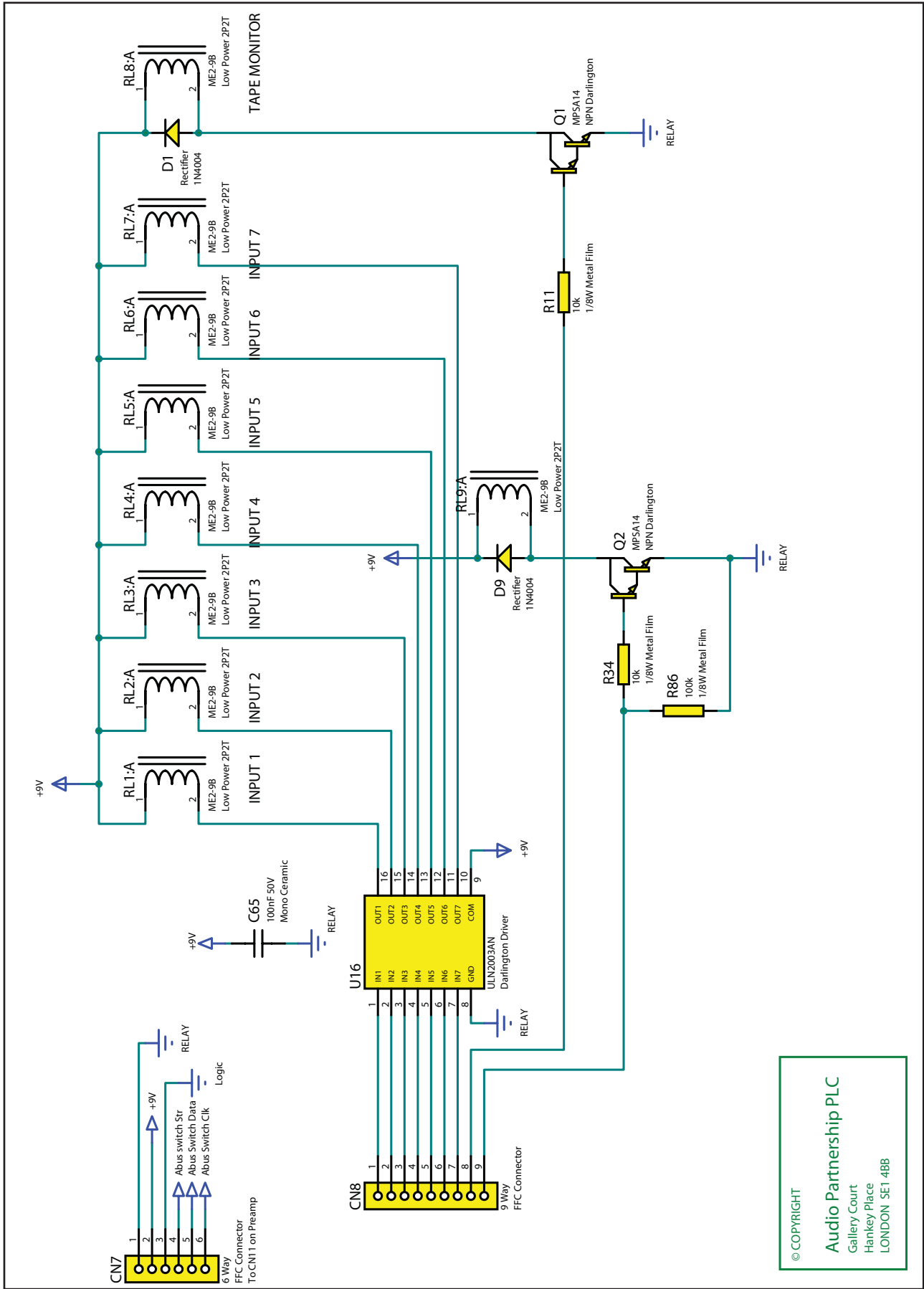
Input Circuit Board - Input Buffers

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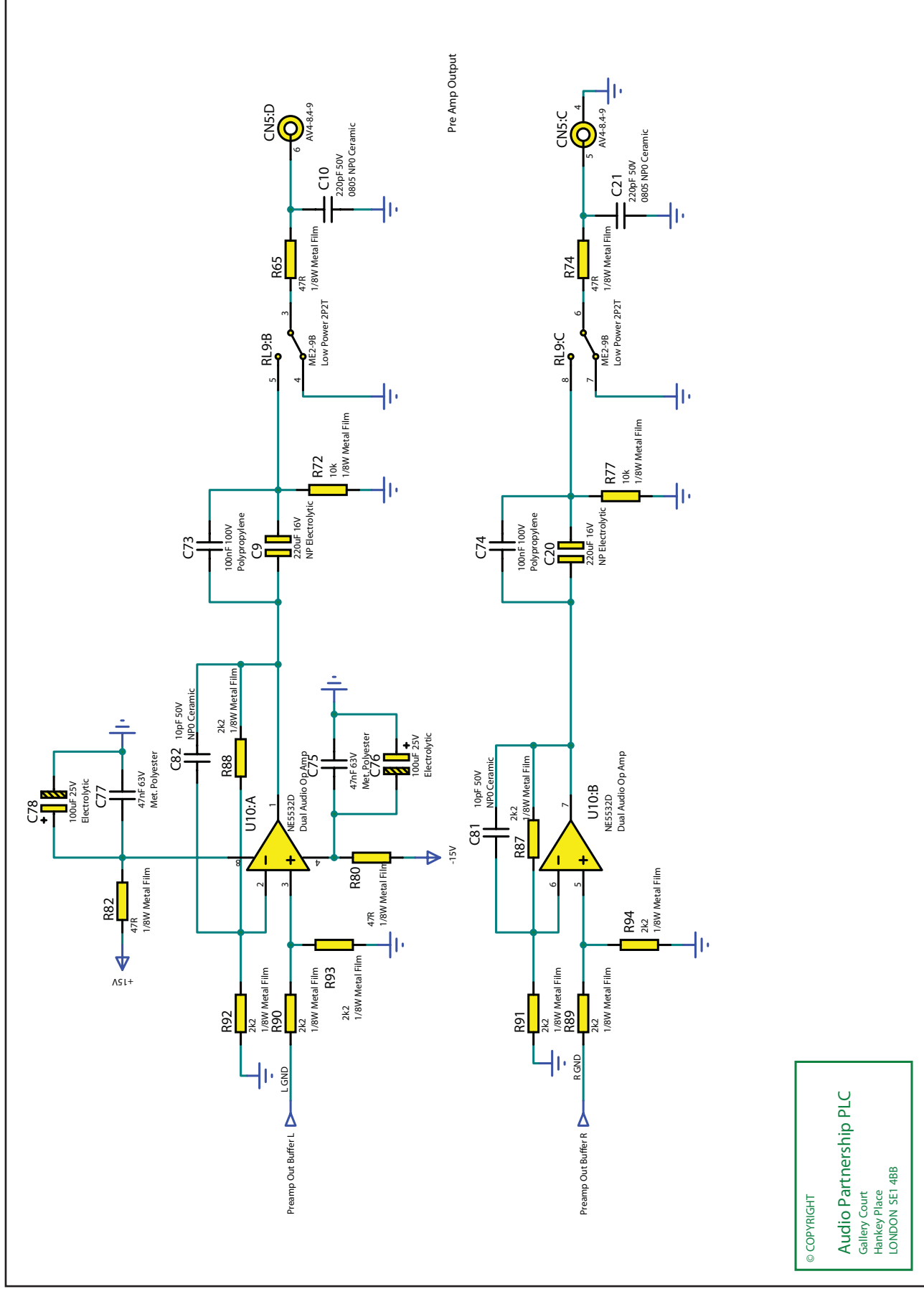
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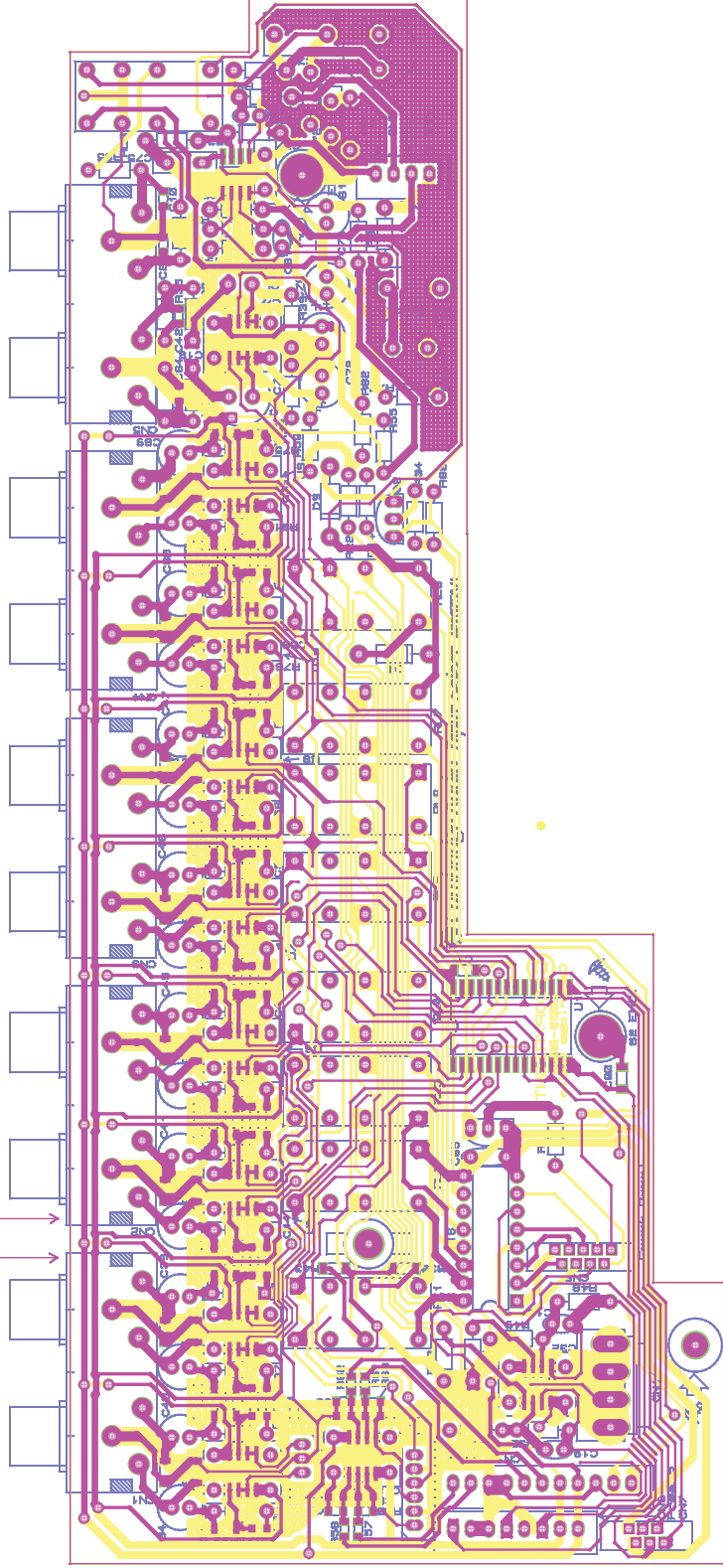
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12-OFF RECTANGULAR HOLES FOR PHONO SOCKET LATCHES 2 X 3 mm



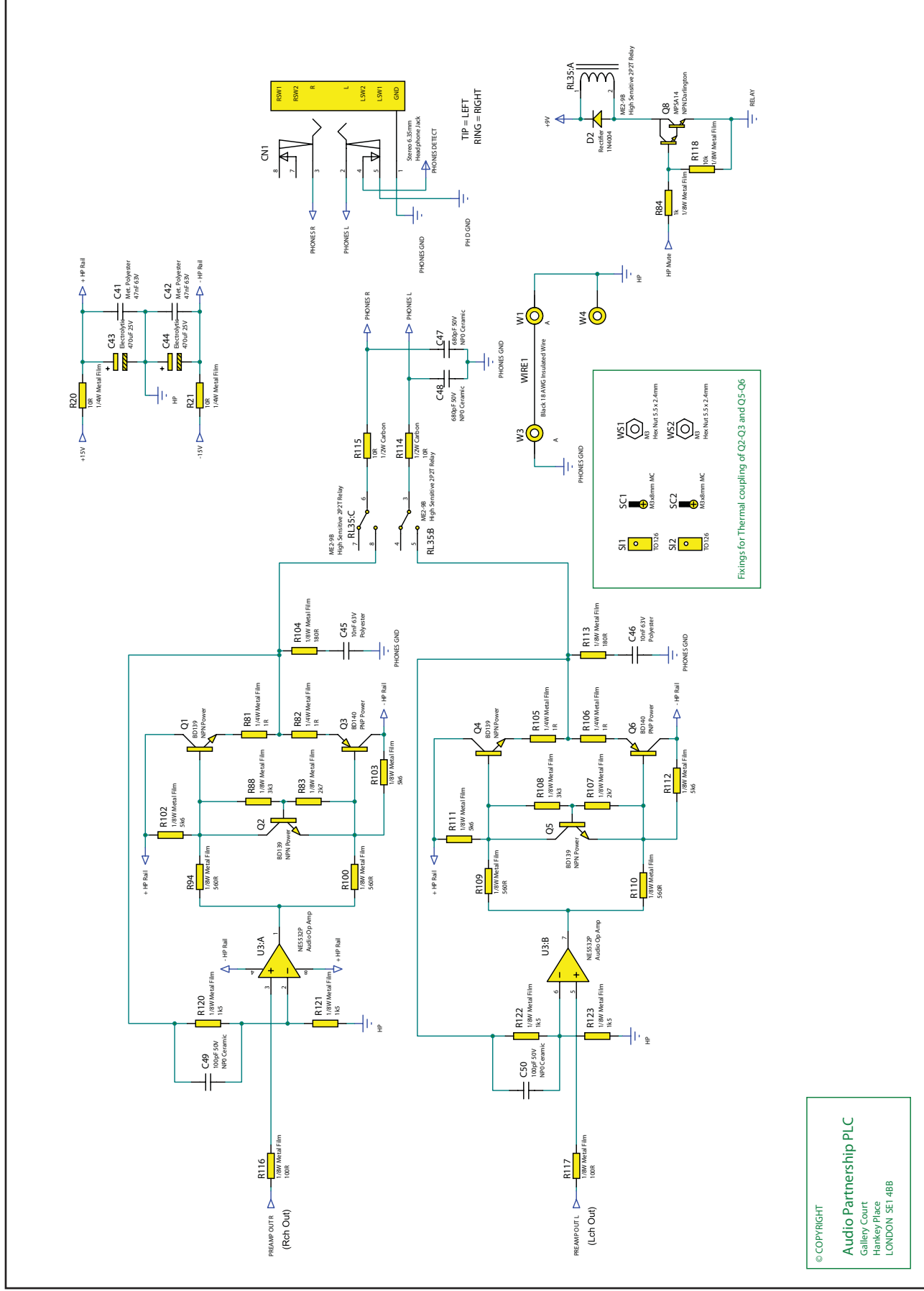
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Cambridge Audio Azur 840A v2 Input PCB Assembly BOM - (AP20755/1)						
Value	Description	Qty	Component ID	Factory P/N	Tolerance	AP P/N
RESISTORS						
47R	1/8W Metal Film	6	R55, R56, R65, R74, R80, R82		1%	
100R	1/8W Metal Film	3	R14, R22, R85		1%	
220R	1/8W Metal Film	2	R9, R19		1%	
1k	1206 Thick Film	16	R4, R5, R8, R10, R15-R18, R23, R26, R27, R31, R33, R36, R37, R46		1%	
1k	0805 Thick Film	4	R59, R60, R63, R64		1%	
1k8	1/8W Metal Film	4	R48-R51		1%	
2k	1/8W Metal Film	2	R39, R53		1%	
2k	0805 Thick Film	4	R57, R58, R61, R62		1%	
2k2	1/8W Metal Film	8	R87-R94		1%	
10k	1/8W Metal Film	4	R11, R34, R72, R77		1%	
22k	1/8W Metal Film	16	R40, R42, R45, R47, R66-R71, R75, R76, R78, R81, R83, R84		1%	
100k	1/8W Metal Film	1	R86		1%	
220k	1206 Thick Film	18	R1-R3, R6, R7, R12, R13, R20, R21, R24, R25, R28-R30, R32, R38, R43, R44		1%	
470k	1/8W Metal Film	4	R35, R41, R52, R54		1%	
CAPACITORS						
10pF 50V	0805 NP0 Ceramic	4	C5-C8		5%	
10pF 50V	NP0 Ceramic	4	C18, C19, C81, C82		5%	
100pF 50V	0805 NP0 Ceramic	16	C3, C13-C15, C22-C31, C67, C79		5%	
220pF 50V	0805 NP0 Ceramic	4	C10, C21, C42, C64		5%	
47nF 63V	Met. Polyester	25	C2, C12, C16, C32, C33, C35, C37, C43, C44, C48-C50, C54-C59, C61, C63, C66, C68, C71, C74, C77		10%	
100nF 50V	1206 Ceramic	2	C1, C80		10%	
100nF 50V	Mono Ceramic	1	C65		10%	
100nF 100V	Polypropylene	2	C73, C74	CMPA104K100RB075	10%	
47uF 16V	NP Electrolytic	16	C34, C36, C38-C41, C45-C47, C51-C53, C60, C62, C69, C70		20%	
100uF 16V	NP Electrolytic	2	C4, C11		20%	
100uF 25V	Electrolytic	4	C17, C72, C76, C78		20%	
220uF 16V	NP Electrolytic	2	C9, C20		20%	
CONNECTORS						
4 Way	Gold Plated Phono	5	CN1-CN5	AV4-8.4-9		
8 Way	Straight Header	1	CN6	B8B-XH-A		
6 Way	FFC Connector	1	CN7	D100-SSV-06		
9 Way	FFC Connector	1	CN8	D100-SSV-9		
4 Way	Straight Header	1	CN9	B4B-XH-A		
11 Way	Straight Header	1	CN10	B11B-XH-A		
4 Way	Straight Header	1	CN11	B4P-VH		
6 Way	Straight Header	1	CN12	B6B-PH-KS		
3 Way	Straight Header	1	CN13	B3B-PH-KS		
DIODES						
400V 1A	Rectifier	2	D1, D9	1N4004		
INTEGRATED CIRCUITS						
16 Way	Input Switch	1	U1	TC9163AF		PY476
	Dual Audio Op Amp	12	U2-U11, U14, U18	NE5532D		PY1162
7 Way	Darlington Driver	1	U16	ULN2003AN		PY1158
RELAY						
9V Coil, 2A Contacts	Low Power 2P2T	9	RL1-RL9	ME2-9B		PY1402
TRANSISTORS						
30V 500mA	NPN Darlington	2	Q1, Q2	MPSA14		PY1211

Note: resistors, capacitors and other 'generic' electronic components are not usually stocked by the manufacturer. Please obtain these locally.

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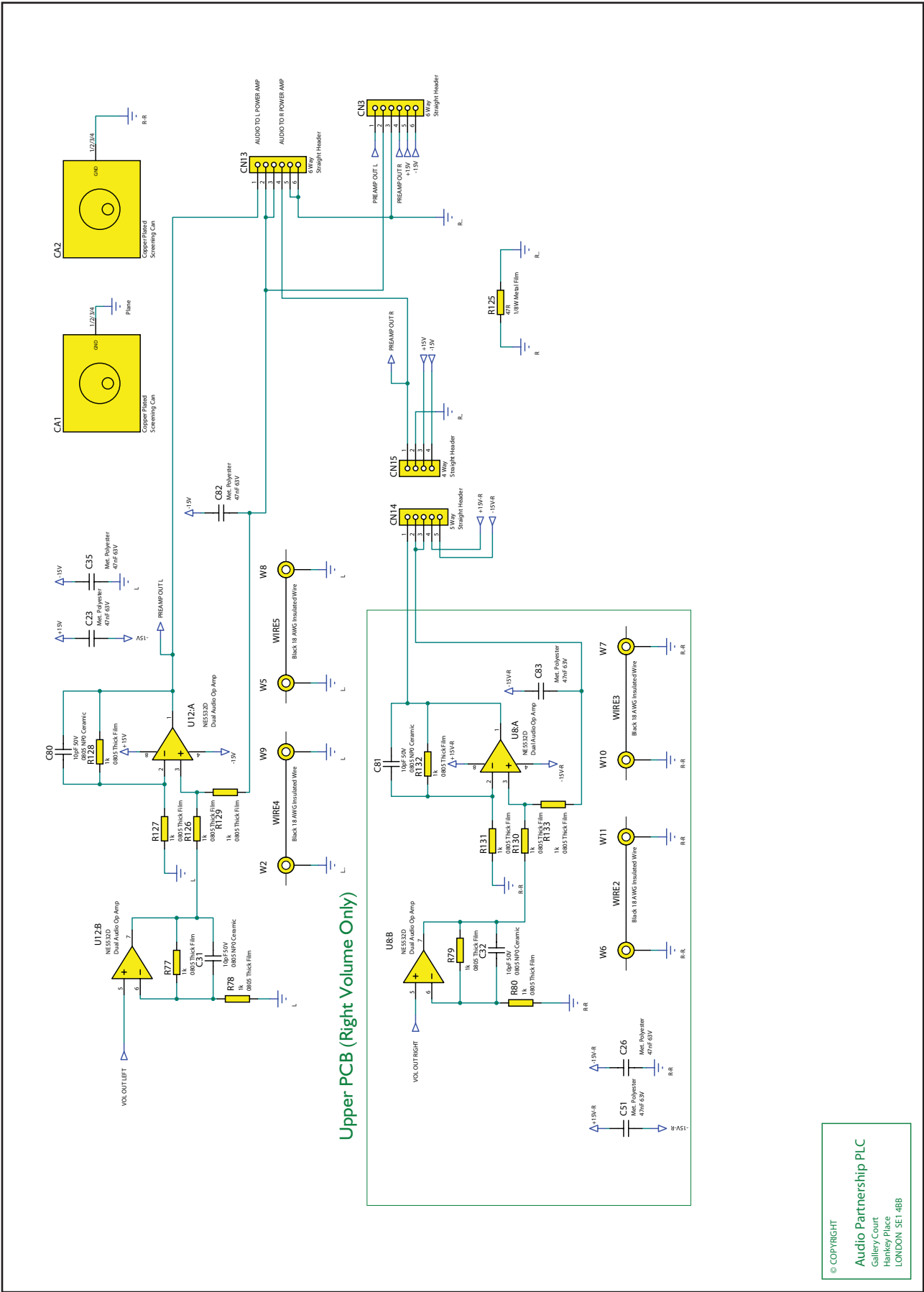


Fixings for Thermal coupling of Q2-Q3 and Q5-Q6

S11	TO218	M3x8mm MC
S12	TO218	M3x8mm MC
SC1	M3x8mm MC	
SC2	M3x8mm MC	
W51	M3	Hex Nut 5.5 x 2.4mm
W52	M3	Hex Nut 5.5 x 2.4mm

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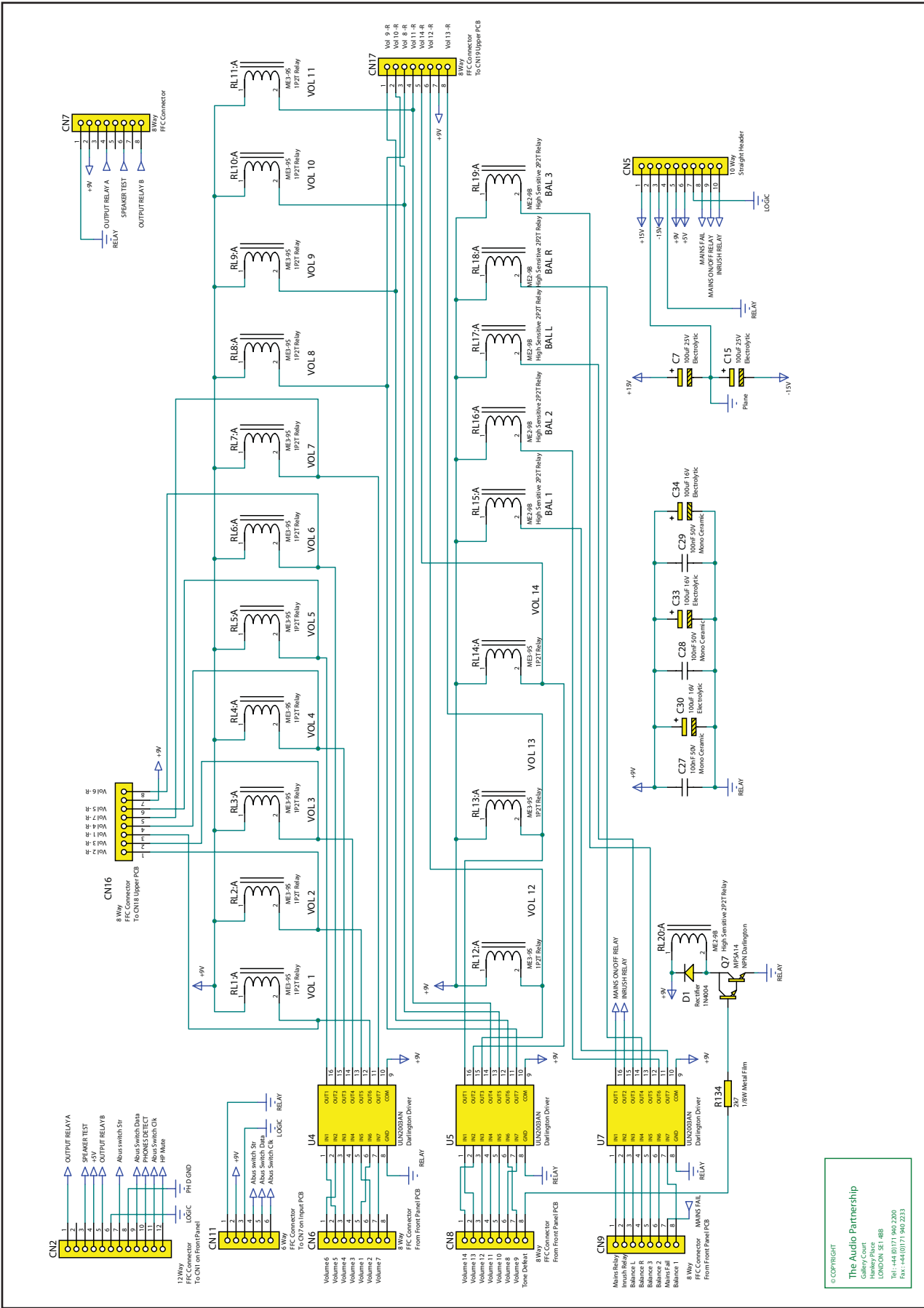
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Upper PCB (Right Volume Only)

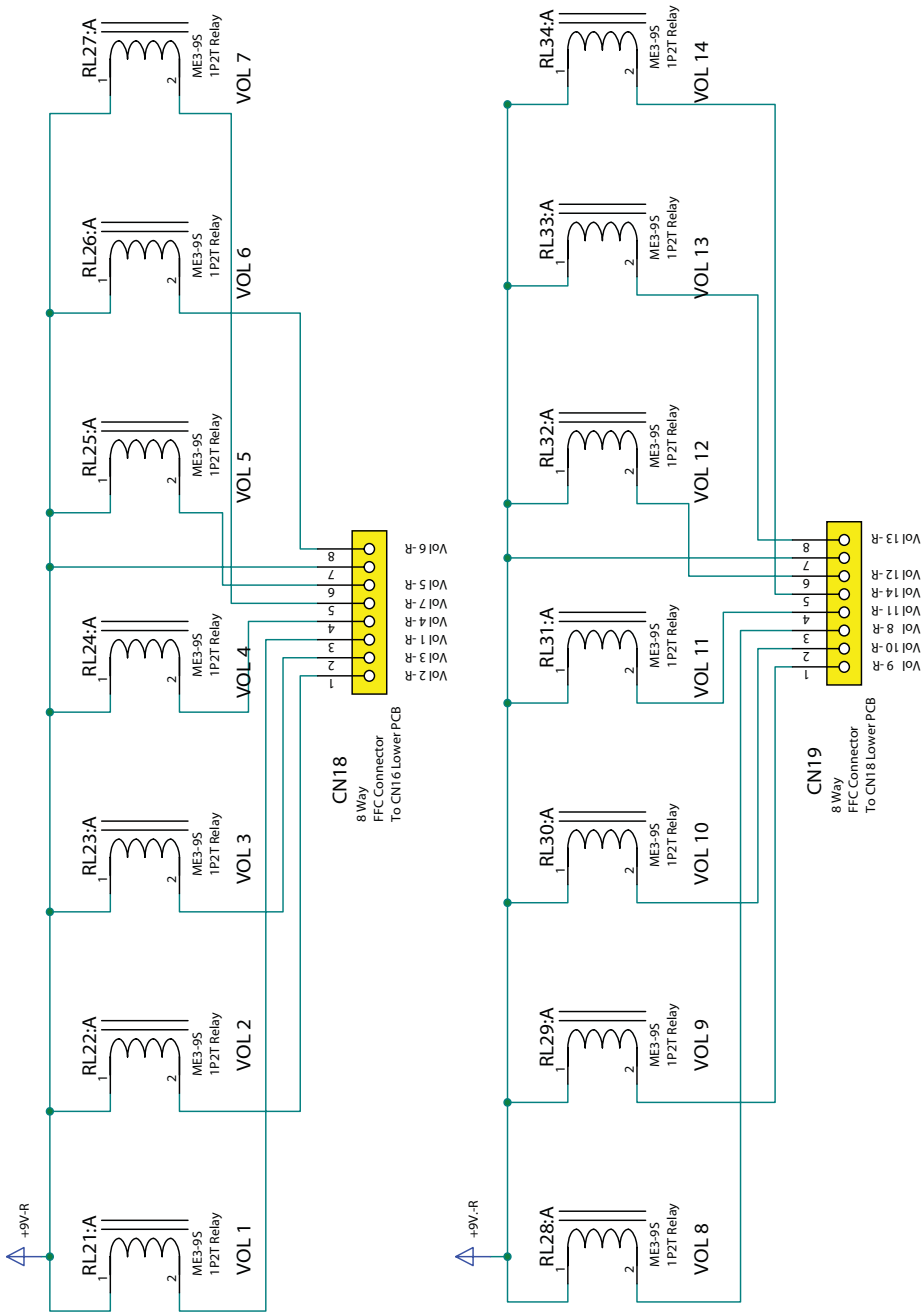
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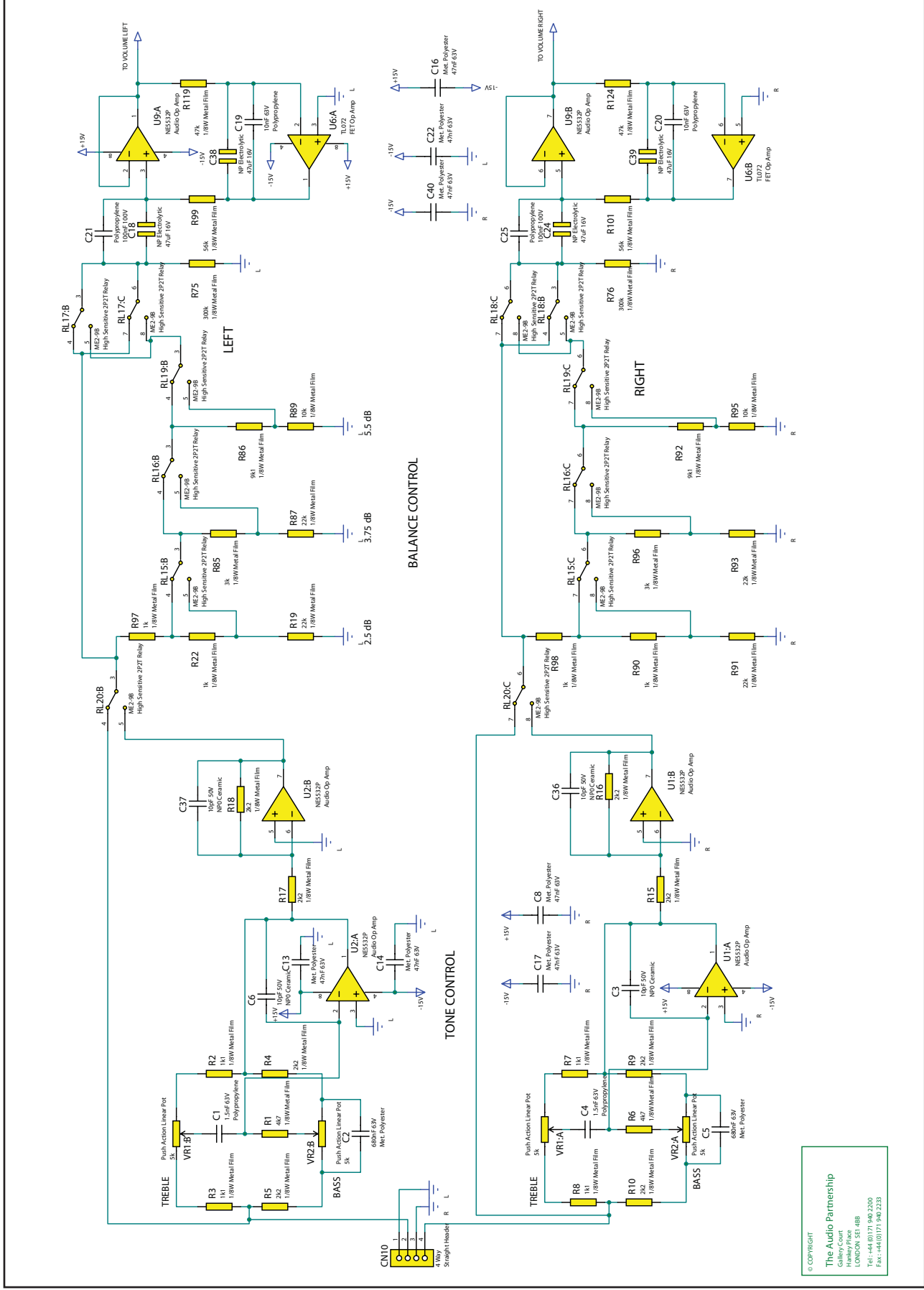
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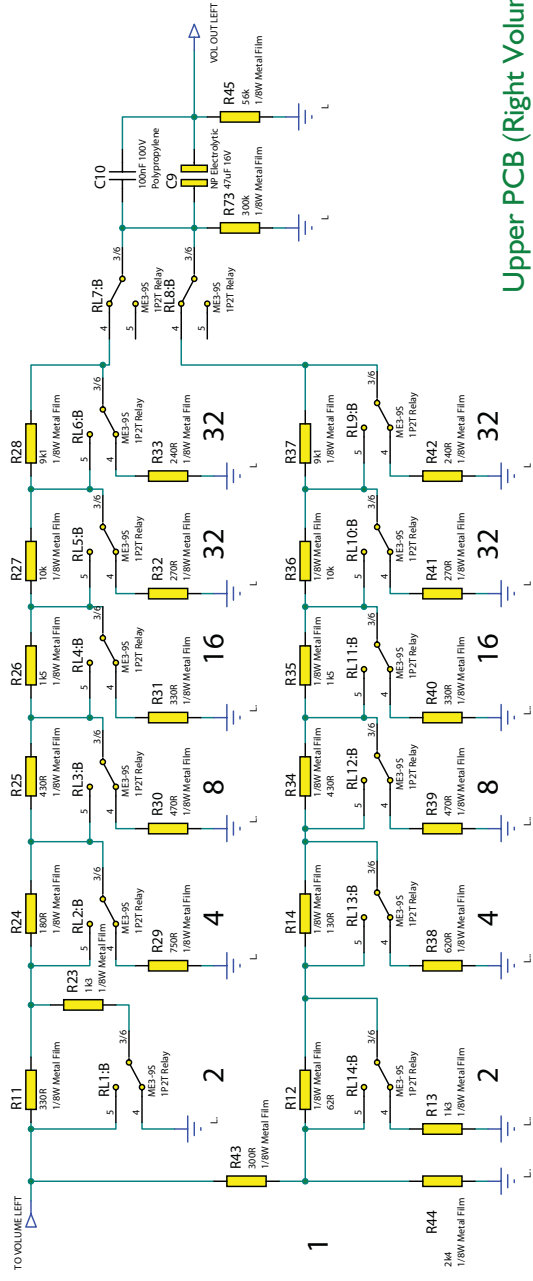
Pre Amp Circuit Board - Right Channel Relay Coils

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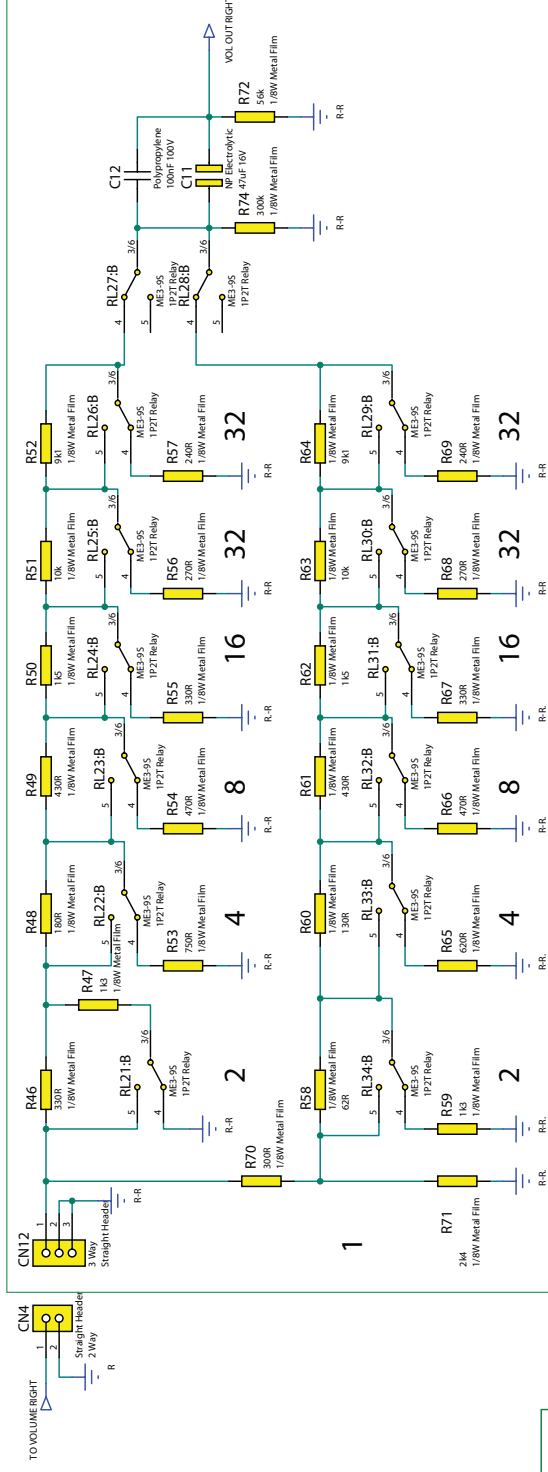


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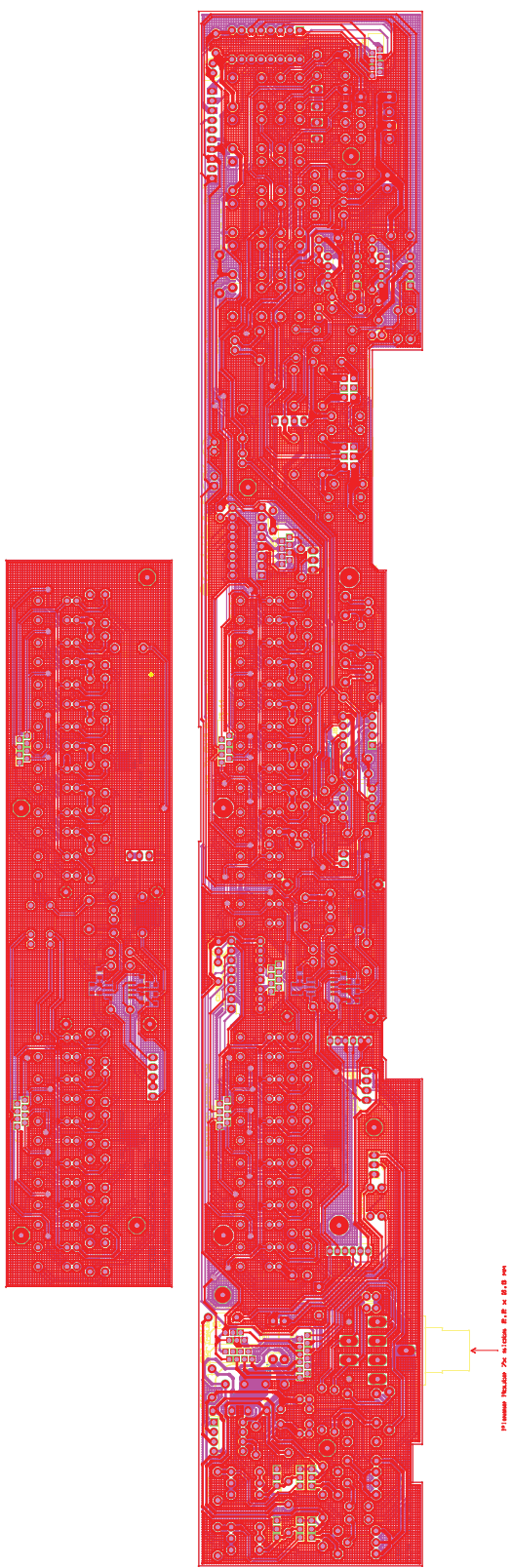


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Cambridge Audio Azur 840A v2 Preamp PCB Assembly BOM - (AP20760/I)						
Value	Description	Qty	Component ID	Factory P/N	Tolerance	AP P/N
RESISTORS						
1R	1/4W Metal Film	4	R81, R82, R105, R106		1%	
10R	1/4W Metal Film	2	R20, R21		1%	
10R	1/2W Carbon	2	R114, R115		10%	
47R	1/8W Metal Film	1	R125		1%	
62R	1/8W Metal Film	2	R12, R58		1%	
100R	1/8W Metal Film	2	R116, R117		1%	
130R	1/8W Metal Film	2	R14, R60		1%	
180R	1/8W Metal Film	4	R24, R48, R104, R113		1%	
240R	1/8W Metal Film	4	R33, R42, R57, R69		1%	
270R	1/8W Metal Film	4	R32, R41, R56, R68		1%	
300R	1/8W Metal Film	2	R43, R70		1%	
330R	1/8W Metal Film	6	R11, R31, R40, R46, R55, R67		1%	
430R	1/8W Metal Film	4	R25, R34, R49, R61		1%	
470R	1/8W Metal Film	4	R30, R39, R54, R66		1%	
560R	1/8W Metal Film	4	R94, R100, R109, R110		1%	
620R	1/8W Metal Film	2	R38, R65		1%	
750R	1/8W Metal Film	2	R29, R53		1%	
1k	1/8W Metal Film	5	R22, R84, R90, R97, R98		1%	
1k	0805 Thick Film	12	R77-R80, R126-R133		1%	
1k1	1/8W Metal Film	4	R2, R3, R7, R8		1%	
1k3	1/8W Metal Film	4	R13, R23, R47, R59		1%	
1k5	1/8W Metal Film	8	R26, R35, R50, R62, R120-R123		1%	
2k2	1/8W Metal Film	8	R4, R5, R9, R10, R15-R18		1%	
2k4	1/8W Metal Film	2	R44, R71		1%	
2k7	1/8W Metal Film	2	R83, R107		1%	
2k7	1/8W Metal Film	1	R134		1%	
3k	1/8W Metal Film	2	R85, R96		1%	
3k3	1/8W Metal Film	2	R88, R108		1%	
4k7	1/8W Metal Film	2	R1, R6		1%	
5k6	1/8W Metal Film	4	R102, R103, R111, R112		1%	
9k1	1/8W Metal Film	6	R28, R37, R52, R64, R86, R92		1%	
10k	1/8W Metal Film	7	R27, R36, R51, R63, R89, R95, R118		1%	
22k	1/8W Metal Film	4	R19, R87, R91, R93		1%	
47k	1/8W Metal Film	2	R119, R124		1%	
56k	1/8W Metal Film	4	R45, R72, R99, R101		1%	
300k	1/8W Metal Film	4	R73-R76		1%	
RESISTORS VARIABLE						
5k	Push Action Linear Pot	2	VR1, VR2	RD902PF-20B6-30F-B5K-0C		
CAPACITORS						
10pF 50V	NPO Ceramic	4	C3, C6, C36, C37		5%	
10pF 50V	0805 NPO Ceramic	4	C31, C32, C80, C81		5%	
100pF 50V	NPO Ceramic	2	C49, C50		5%	
680pF 50V	NPO Ceramic	2	C47, C48		5%	
1.5nF 63V	Polypropylene	2	C1, C4		5%	
10nF 63V	Polypropylene	2	C19, C20		5%	
10nF 63V	Polyester	2	C45, C46		10%	
47nF 63V	Met. Polyester	15	C8, C13, C14, C16, C17, C22, C23, C26, C35, C40-C42, C51, C82, C83		10%	
100nF 100V	Polypropylene	4	C10, C12, C21, C25	CMPA104KI00RB075	10%	
100nF 50V	Mono Ceramic	3	C27-C29		10%	
680nF 63V	Met. Polyester	2	C2, C5		10%	
47uF 16V	NP Electrolytic	6	C9, C11, C18, C24, C38, C39		20%	
100uF 25V	Electrolytic	2	C7, C15		20%	
100uF 16V	Electrolytic	3	C30, C33, C34		20%	
470uF 25V	Electrolytic	2	C43, C44		20%	

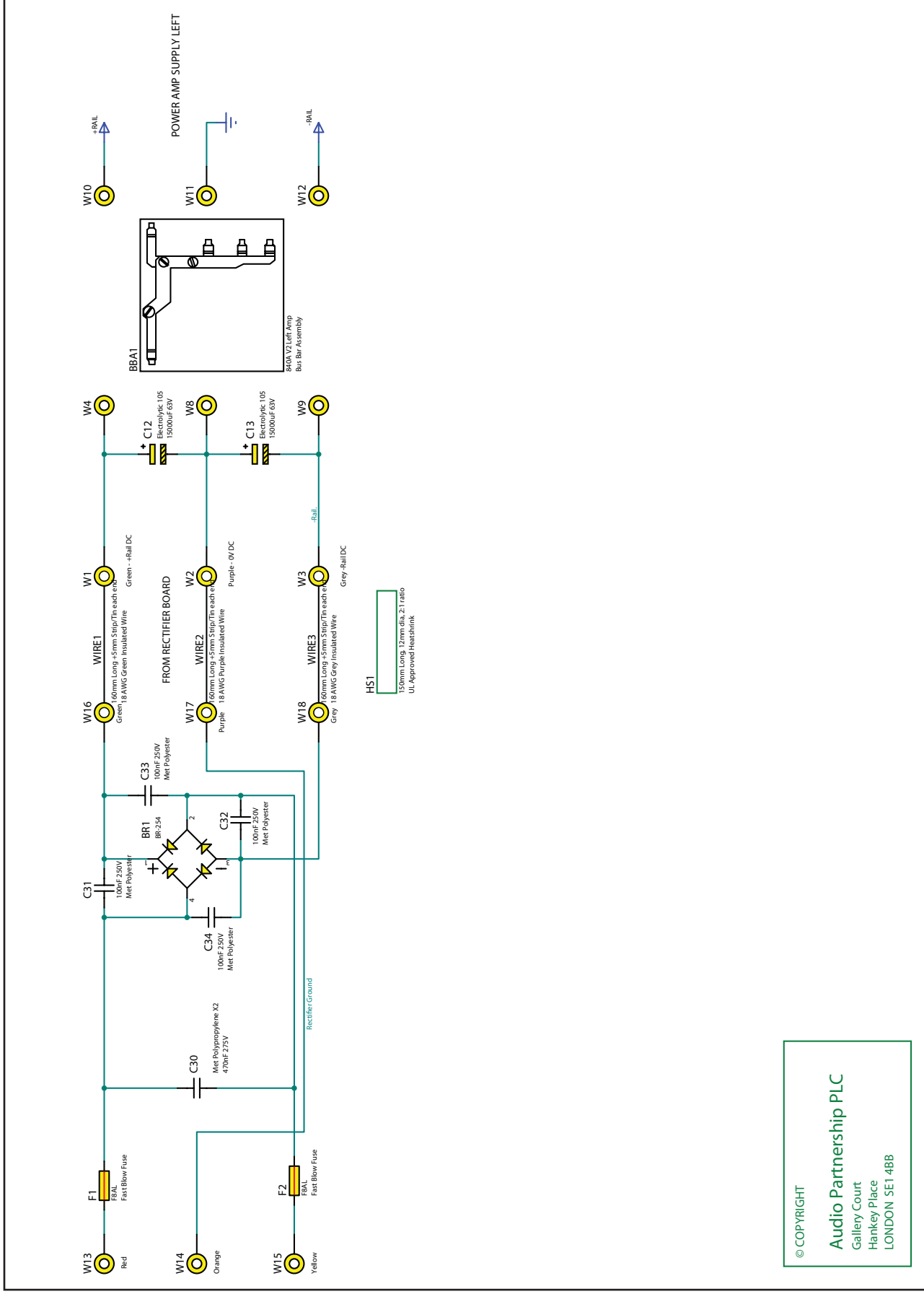
Note: resistors, capacitors and other 'generic' electronic components are not usually stocked by the manufacturer. Please obtain these locally.

Cambridge Audio Azur 840A v2 Preamp PCB Assembly BOM - (AP20760/1)

Value	Description	Qty	Component ID	Factory P/N	Tolerance	AP P/N
CONNECTORS						
Stereo 6.35mm	Headphone Jack	1	CN1	CK-6.35-04A		
12 Way	FFC Connector	1	CN2	D100-SSV-12		
6 Way	Straight Header	2	CN3, CN13	B6B-PH-KS		
2 Way	Straight Header	1	CN4	B2B-XH-A		
10 Way	Straight Header	1	CN5	B10B-XH-A		
8 Way	FFC Connector	8	CN6-CN9, CN16-CN19	D100-SSV-08		
4 Way	Straight Header	2	CN10, CN15	B4B-XH-A		
6 Way	FFC Connector	1	CN11	D100-SSV-06		
3 Way	Straight Header	1	CN12	B3B-XH-A		
5 Way	Straight Header	1	CN14	B5B-XH-A		
DIODES						
400V 1A	Rectifier	2	D1, D2	1N4004		
INTEGRATED CIRCUITS						
Dual	Audio Op Amp	4	U1-U3, U9	NE5532P		PY108
7 Way	Darlington Driver	3	U4, U5, U7	ULN2003AN		PY1158
Dual Low Noise	FET Op Amp	1	U6	TL072		PY633
	Dual Audio Op Amp	2	U8, U12	NE5532D		PY1162
RELAY						
9V Coil, 2A Contacts	1P2T Relay	28	RL1-RL14, RL21-RL34	ME3-9S		PY1400
9V Coil, 2A Contacts	High Sensitive 2P2T Relay	6	RL15-RL20	ME2-9B		PY1402
9V Coil, 2A Contacts	High Sensitive 2P2T Relay	1	RL35	ME2-9B		PY1402
TRANSISTORS						
80V 1.5A	NPN Power	4	Q1, Q2, Q4, Q5	BD139		PY1236
-80V 1.5A	PNP Power	2	Q3, Q6	BD140		PY1235
30V 500mA	NPN Darlington	2	Q7, Q8	MPSA14		PY1211

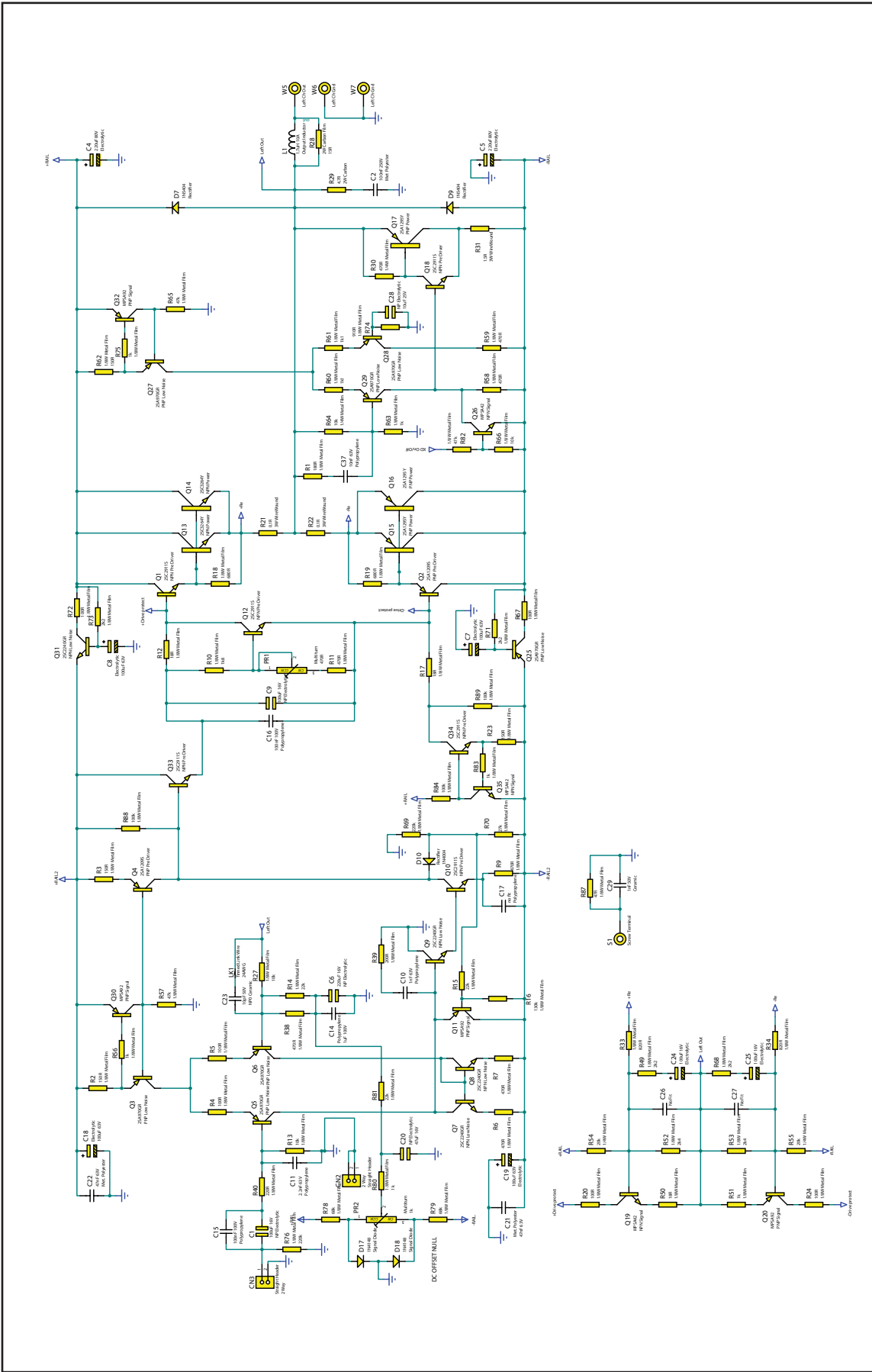
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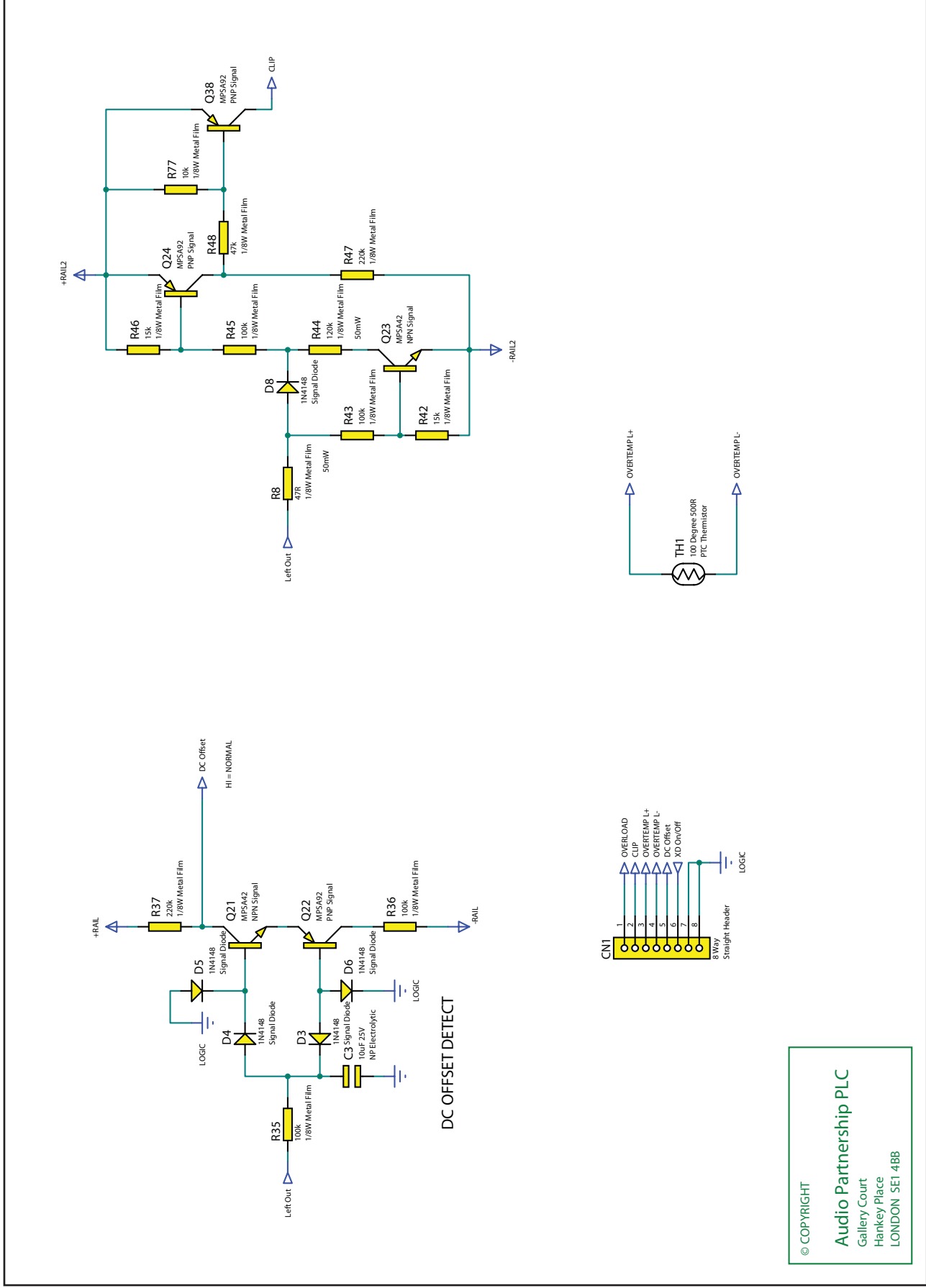
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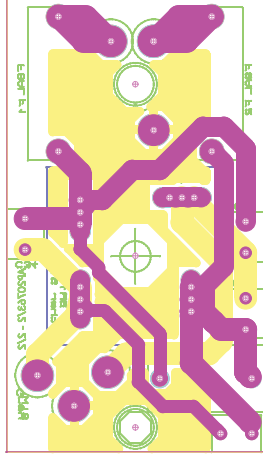
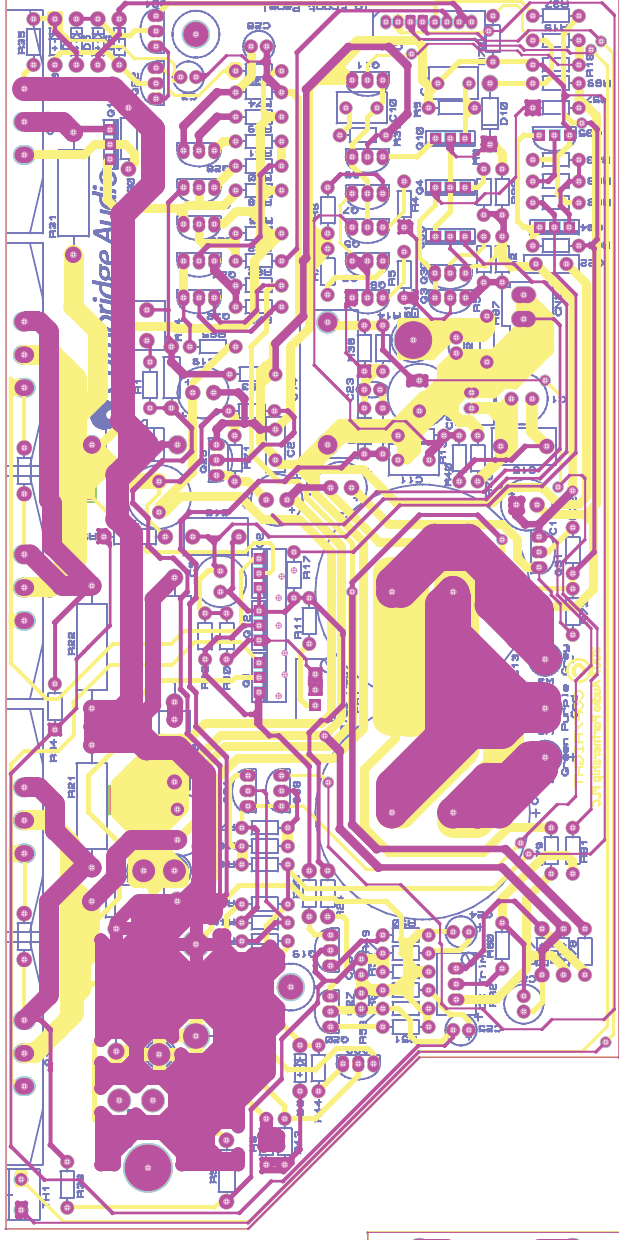
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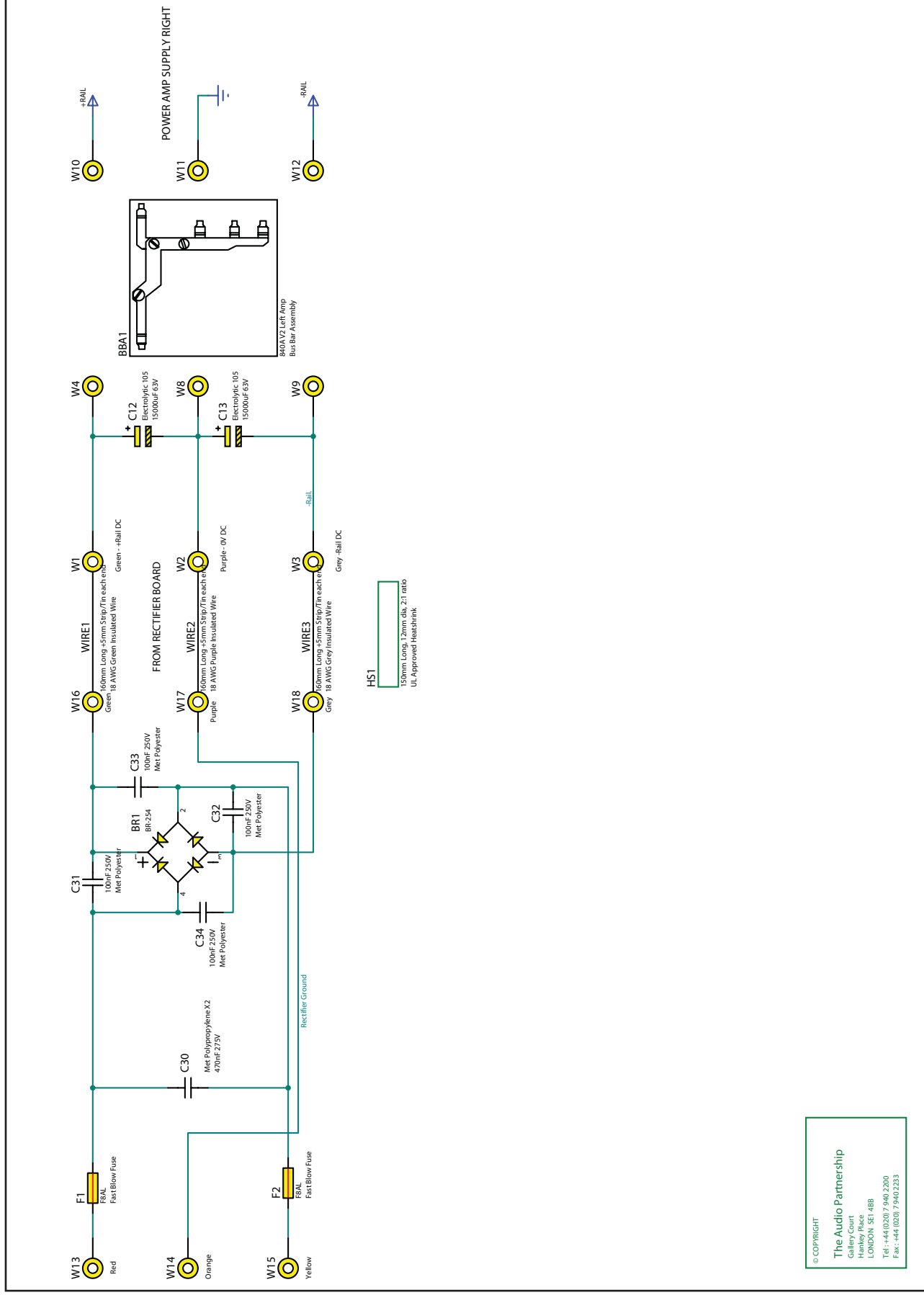
Cambridge Audio Azur 840A v2 Left Power Amp - (AP20765/3)						
Value	Description	Qty	Component ID	Factory P/N	Tolerance	AP P/N
RESISTORS						
0.1R	3W WireWound	2	R21, R22		5%	
1.5R	3W WireWound	1	R31		5%	
4.7R	2W Carbon	1	R29		10%	
15R	2W Carbon Film	1	R28		5%	
18R	1/8W Metal Film	3	R12, R17, R50		1%	
47R	1/8W Metal Film	2	R8, R87		1%	
100R	1/8W Metal Film	6	R4, R5, R20, R24, R67, R72		1%	
150R	1/8W Metal Film	4	R2, R3, R23, R62		1%	
180R	1/8W Metal Film	1	R1		1%	
200R	1/8W Metal Film	1	R39		1%	
220R	1/8W Metal Film	1	R40		1%	
470R	1/8W Metal Film	7	R6, R7, R9, R11, R38, R58, R59		1%	
470R	1/4W Metal Film	1	R30		1%	
680R	1/8W Metal Film	2	R18, R19		1%	
820R	1/8W Metal Film	2	R33, R34		1%	
910R	1/8W Metal Film	1	R74		1%	
1k	1/8W Metal Film	6	R51, R56, R63, R75, R80, R83		1%	
1k1	1/8W Metal Film	2	R60, R61		1%	
1k8	1/8W Metal Film	1	R10		1%	
2k2	1/8W Metal Film	4	R49, R68, R71, R73		1%	
2k4	1/8W Metal Film	2	R52, R53		1%	
10k	1/8W Metal Film	4	R13, R27, R66, R77		1%	
10k	1/4W Metal Film	1	R64		1%	
15k	1/8W Metal Film	2	R42, R46		1%	
20k	1/4W Metal Film	2	R54, R55		1%	
22k	1/8W Metal Film	3	R14, R15, R81		1%	
27k	1/8W Metal Film	1	R70		1%	
47k	1/8W Metal Film	4	R48, R57, R65, R82		1%	
68k	1/8W Metal Film	2	R78, R79		1%	
100k	1/8W Metal Film	7	R35, R36, R43, R45, R84, R88, R89		1%	
120k	1/8W Metal Film	1	R44		1%	
130k	1/8W Metal Film	1	R16		1%	
220k	1/8W Metal Film	4	R37, R47, R69, R76		1%	
RESISTORS VARIABLE						
470R	Multiturn	1	PR1		30%	
1k	Multiturn	1	PR2	W13296NOXOX-WA2-010	30%	

Note: resistors, capacitors and other 'generic' components are not usually stocked by the manufacturer. Please obtain these locally.

Cambridge Audio Azur 840A v2 Left Power Amp - (AP20765/3)						
Value	Description/Type	Qty	Component ID	Factory P/N	Tolerance	AP P/N
CAPACITORS						
no fit		1	C17			
No Fit		2	C26, C27			
10pF 50V	NP0 Ceramic	1	C23		5%	
1nF 63V	Polypropylene	1	C10		5%	
1nF 50V	Ceramic	1	C29		10%	
2.2nF 63V	Polypropylene	1	C11		5%	
10nF 63V	Polypropylene	1	C37		5%	
47nF 63V	Met. Polyester	2	C21, C22		10%	
100nF 250V	Met Polyester	1	C2		10%	
100nF 100V	Polypropylene	2	C15, C16	CMPA104K100RB075	10%	
100nF 250V	Met Polyester	4	C31-C34	CMEB104M250Rxxxx	20%	
470nF 275V	Met Polypropylene X2	1	C30	CMKS474M275Rxxxx	20%	
1uF 100V	Polypropylene	1	C14	CMPA105K100RB200	10%	
10uF 25V	NP Electrolytic	2	C3, C28		20%	
47uF 16V	NP Electrolytic	1	C20		20%	
100uF 16V	NP Electrolytic	2	C1, C9		20%	
100uF 63V	Electrolytic	4	C7, C8, C18, C19		20%	
100uF 16V	Electrolytic	2	C24, C25		20%	
220uF 80V	Electrolytic	2	C4, C5		20%	
220uF 16V	NP Electrolytic	1	C6		20%	
15000uF 63V	Electrolytic 105	2	C12, C13		20%	
CONNECTORS						
8 Way	Straight Header	1	CN1	B8B-PH-KS		
2 Way	Straight Header	1	CN2	B2P-VH		
2 Way	Straight Header	1	CN3	B2B-XH-A		
DIODES						
75V 150mA	Signal Diode	7	D3-D6, D8, D17, D18	1N4148		
400V 3A	Rectifier	2	D7, D9	1N5404		
400V 1A	Rectifier	1	D10	1N4004		
FUSES						
F8AL	Fast Blow Fuse	2	F1, F2			
	Fuse Holder Base	2	F1, F2	PTF78 (or equivalent)	20mm Pitch	
	Fuse Holder Cover	2	F1, F2	PTF78 (or equivalent)	20mm Pitch	
INDUCTORS						
1.7uH 10A	Output Inductor	1	L1	0.8-1950100-150		
TRANSISTORS						
160V 140mA	NPN Pre Driver	2	Q1, Q12	2SC2911S		PY1407
-160V -140mA	PNP Pre Driver	1	Q2	2SA1209S		PY1408
-120V -100mA	PNP Low Noise	7	Q3, Q5, Q6, Q25, Q27-Q29	2SA970GR		PF075
-160V -140mA	PNP Pre Driver	1	Q4	2SA1209S		PY1408
120V 100mA	NPN Low Noise	4	Q7-Q9, Q31	2SC2240GR		PY910
160V 140mA	NPN Pre Driver	4	Q10, Q18, Q33, Q34	2SC2911S		PY1407
-300V -500mA	PNP Signal	7	Q11, Q20, Q22, Q24, Q30, Q32, Q38	MPSA92		PY220
230V 17A	NPN Power	2	Q13, Q14	2SC3264Y		PY1147
230V 17A	PNP Power	3	Q15-Q17	2SA1295Y		PY1149
300V 500mA	NPN Signal	5	Q19, Q21, Q23, Q26, Q35	MPSA42		PY537
MISCELLANEOUS						
400V 25A	Bridge Rectifier (fit flush to PCB)	1	BR1	BR-254		
100 Degree 500R	PTC Thermistor (use thermal compound)	1	TH1	ZPP221A501E		

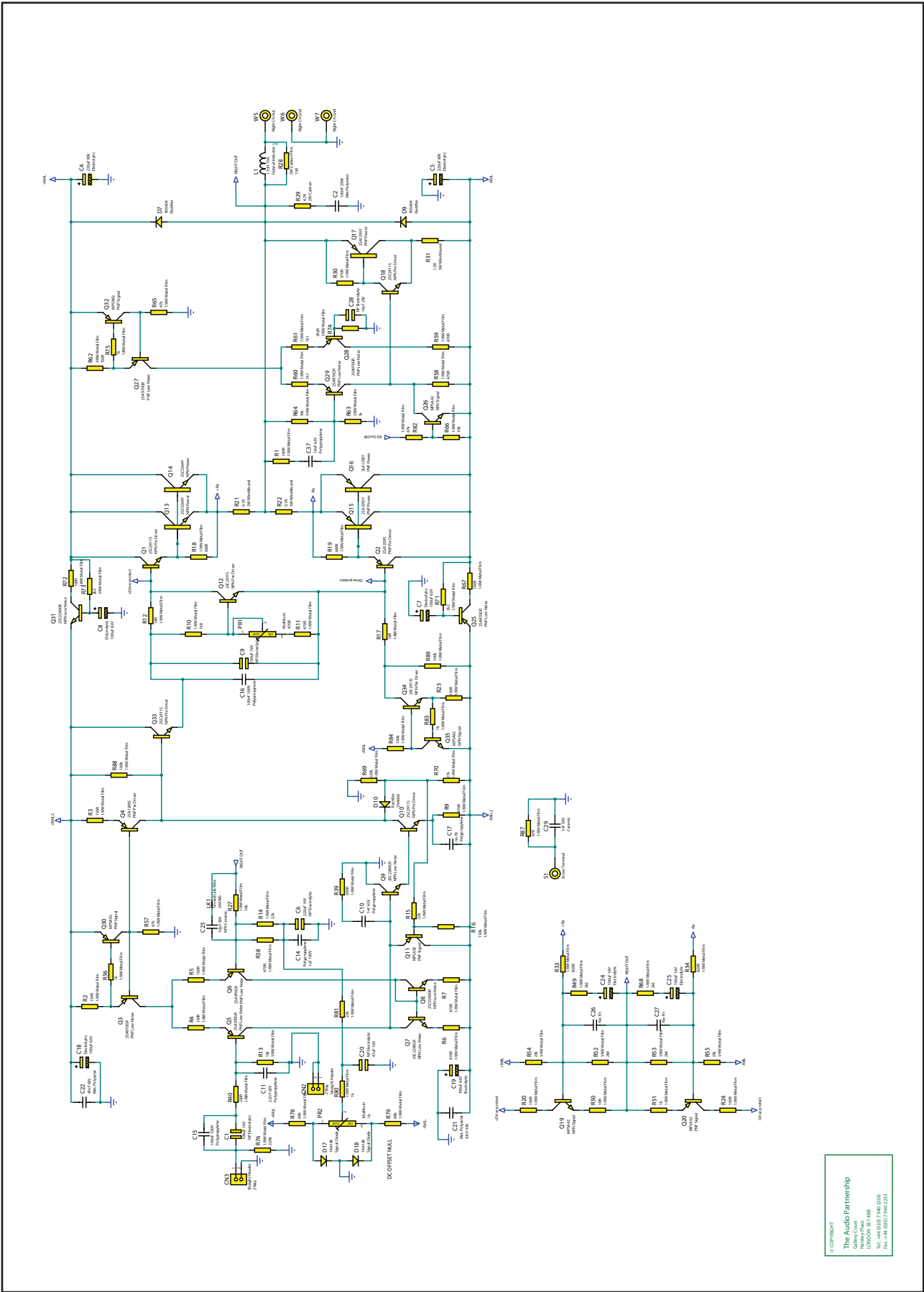
Note: resistors, capacitors and other 'generic' components are not usually stocked by the manufacturer. Please obtain these locally.

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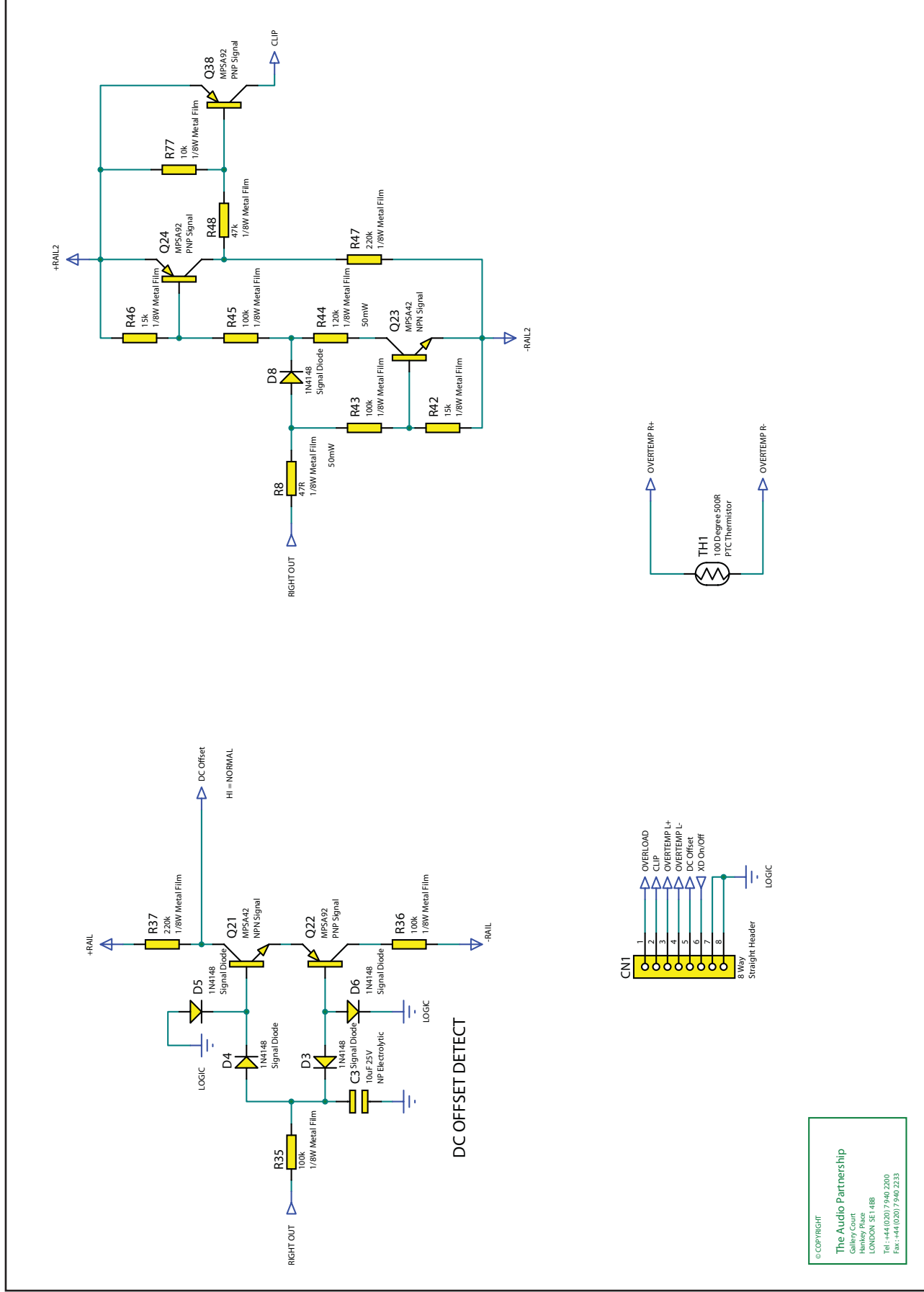
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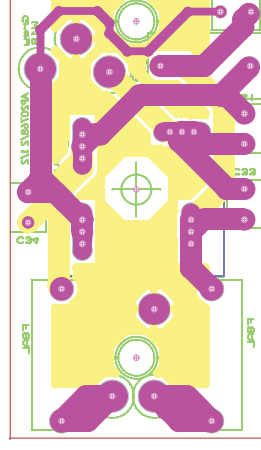
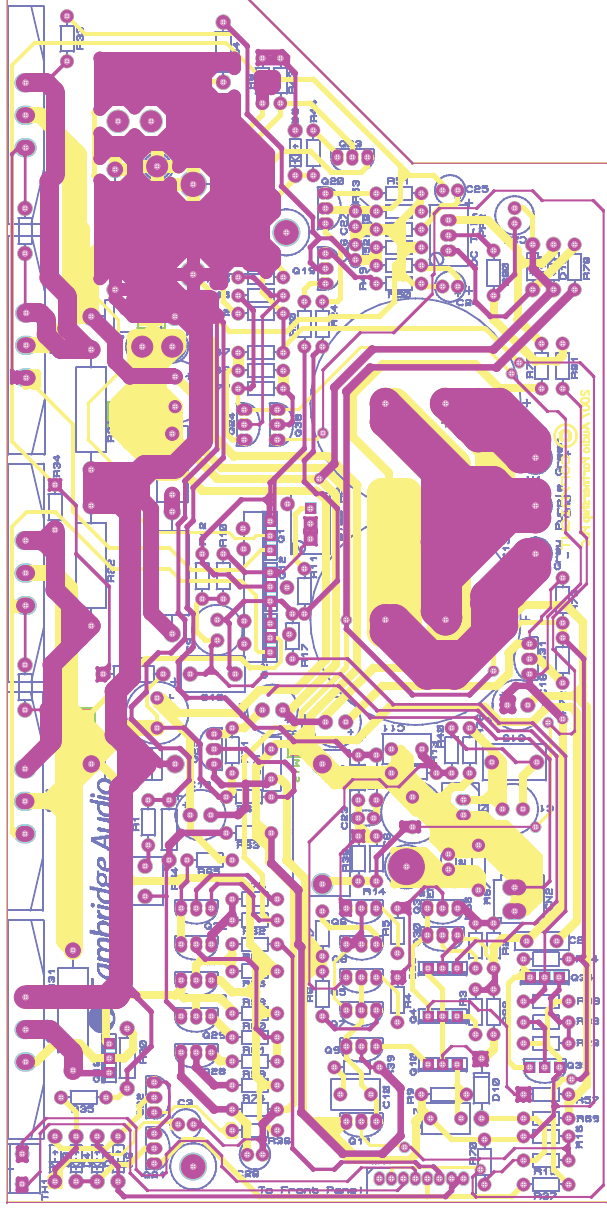
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Right Power Amp Circuit Board - Protection Circuitry

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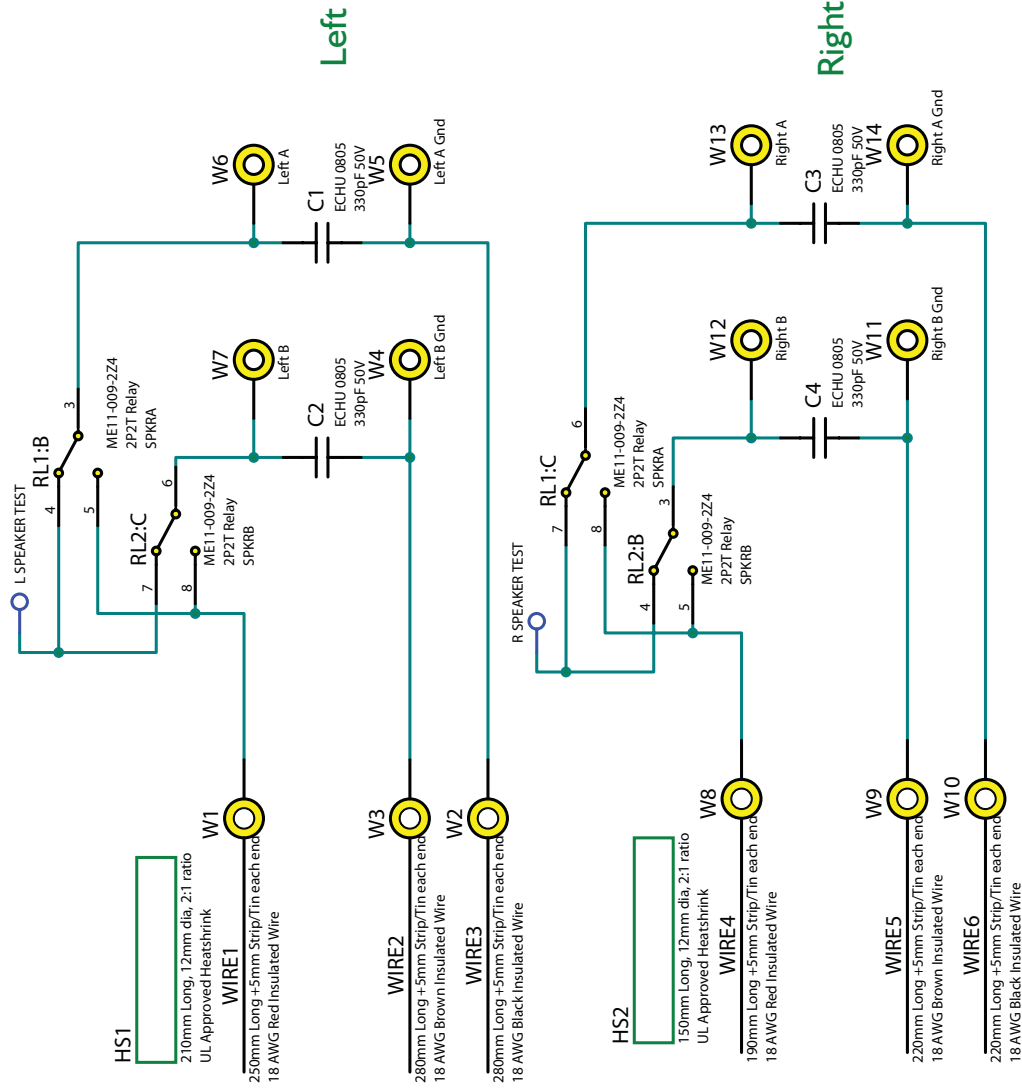
Cambridge Audio Azur 840A v2 Right Power Amp - (AP20770/3)						
Value	Description/Type	Qty	Component ID	Factory P/N	Tolerance	AP P/N
RESISTORS						
0.1R	3W WireWound	2	R21, R22		5%	
1.5R	3W WireWound	1	R31		5%	
4.7R	2W Carbon	1	R29		10%	
15R	2W Carbon Film	1	R28		5%	
18R	1/8W Metal Film	3	R12, R17, R50		1%	
47R	1/8W Metal Film	2	R8, R87		1%	
100R	1/8W Metal Film	6	R4, R5, R20, R24, R67, R72		1%	
150R	1/8W Metal Film	4	R2, R3, R23, R62		1%	
180R	1/8W Metal Film	1	R1		1%	
200R	1/8W Metal Film	1	R39		1%	
220R	1/8W Metal Film	1	R40		1%	
470R	1/8W Metal Film	7	R6, R7, R9, R11, R38, R58, R59		1%	
470R	1/4W Metal Film	1	R30		1%	
680R	1/8W Metal Film	2	R18, R19		1%	
820R	1/8W Metal Film	2	R33, R34		1%	
910R	1/8W Metal Film	1	R74		1%	
1k	1/8W Metal Film	6	R51, R56, R63, R75, R80, R83		1%	
1k1	1/8W Metal Film	2	R60, R61		1%	
1k8	1/8W Metal Film	1	R10		1%	
2k2	1/8W Metal Film	4	R49, R68, R71, R73		1%	
2k4	1/8W Metal Film	2	R52, R53		1%	
10k	1/8W Metal Film	4	R13, R27, R66, R77		1%	
10k	1/4W Metal Film	1	R64		1%	
15k	1/8W Metal Film	2	R42, R46		1%	
20k	1/4W Metal Film	2	R54, R55		1%	
22k	1/8W Metal Film	3	R14, R15, R81		1%	
27k	1/8W Metal Film	1	R70		1%	
47k	1/8W Metal Film	4	R48, R57, R65, R82		1%	
68k	1/8W Metal Film	2	R78, R79		1%	
100k	1/8W Metal Film	7	R35, R36, R43, R45, R84, R88, R89		1%	
120k	1/8W Metal Film	1	R44		1%	
130k	1/8W Metal Film	1	R16		1%	
220k	1/8W Metal Film	4	R37, R47, R69, R76		1%	
RESISTORS VARIABLE						
470R	Multiturn	1	PR1		30%	
1k	Multiturn	1	PR2	W13296NOXOX-WA2-010	30%	

Note: resistors, capacitors and other 'generic' components are not usually stocked by the manufacturer. Please obtain these locally.

Cambridge Audio Azur 840A v2 Right Power Amp - (AP20770/3)						
Value	Description/Type	Qty	Component ID	Factory P/N	Tolerance	AP P/N
CAPACITORS						
no fit		1	C17			
No Fit		2	C26, C27			
10pF 50V	NPO Ceramic	1	C23		5%	
1nF 63V	Polypropylene	1	C10		5%	
1nF 50V	Ceramic	1	C29		10%	
2.2nF 63V	Polypropylene	1	C11		5%	
10nF 63V	Polypropylene	1	C37		5%	
47nF 63V	Met. Polyester	2	C21, C22		10%	
100nF 250V	Met Polyester	1	C2		10%	
100nF 100V	Polypropylene	2	C15, C16	CMPA104K100RB075	10%	
100nF 250V	Met Polyester	4	C31-C34	CMEB104M250Rxxxx	20%	
470nF 275V	Met Polypropylene X2	1	C30	CMKS474M275Rxxxx	20%	
1uF 100V	Polypropylene	1	C14	CMPA105K100RB200	10%	
10uF 25V	NP Electrolytic	2	C3, C28		20%	
47uF 16V	NP Electrolytic	1	C20		20%	
100uF 16V	NP Electrolytic	2	C1, C9		20%	
100uF 63V	Electrolytic	4	C7, C8, C18, C19		20%	
100uF 16V	Electrolytic	2	C24, C25		20%	
220uF 80V	Electrolytic	2	C4, C5		20%	
220uF 16V	NP Electrolytic	1	C6		20%	
15000uF 63V	Electrolytic 105	2	C12, C13		20%	
CONNECTORS						
8 Way	Straight Header	1	CN1	B8B-PH-KS		
2 Way	Straight Header	1	CN2	B2P-VH		
2 Way	Straight Header	1	CN3	B2B-XH-A		
DIODES						
75V 150mA	Signal Diode	7	D3-D6, D8, D17, D18	1N4148		
400V 3A	Rectifier	2	D7, D9	1N5404		
400V 1A	Rectifier	1	D10	1N4004		
FUSES						
F8AL	Fast Blow Fuse	2	F1, F2			
	Fuse Holder Base	2	F1, F2	PTF78 (or equivalent)	20mm Pitch	
	Fuse Holder Cover	2	F1, F2	PTF78 (or equivalent)	20mm Pitch	
INDUCTORS						
1.7uH 10A	Output Inductor	1	L1	0.8-1950100-150		
TRANSISTORS						
160V 140mA	NPN Pre Driver	2	Q1, Q12	2SC2911S		PY1407
-160V -140mA	PNP Pre Driver	1	Q2	2SA1209S		PY1408
-120V -100mA	PNP Low Noise	7	Q3, Q5, Q6, Q25, Q27-Q29	2SA970GR		PF075
-160V -140mA	PNP Pre Driver	1	Q4	2SA1209S		PY1408
120V 100mA	NPN Low Noise	4	Q7-Q9, Q31	2SC2240GR		PY910
160V 140mA	NPN Pre Driver	4	Q10, Q18, Q33, Q34	2SC2911S		PY1407
-300V -500mA	PNP Signal	7	Q11, Q20, Q22, Q24, Q30, Q32, Q38	MPSA92		PY220
230V 17A	NPN Power	2	Q13, Q14	2SC3264Y		PY1147
230V 17A	PNP Power	3	Q15-Q17	2SA1295Y		PY1149
300V 500mA	NPN Signal	5	Q19, Q21, Q23, Q26, Q35	MPSA42		PY537
MISCELLANEOUS						
400V 25A	Bridge Rectifier (fit flush to PCB)	1	BRI	BR-254		
100 Degree 500R	PTC Thermistor (use thermal compound)	1	TH1	ZPP221A501E		

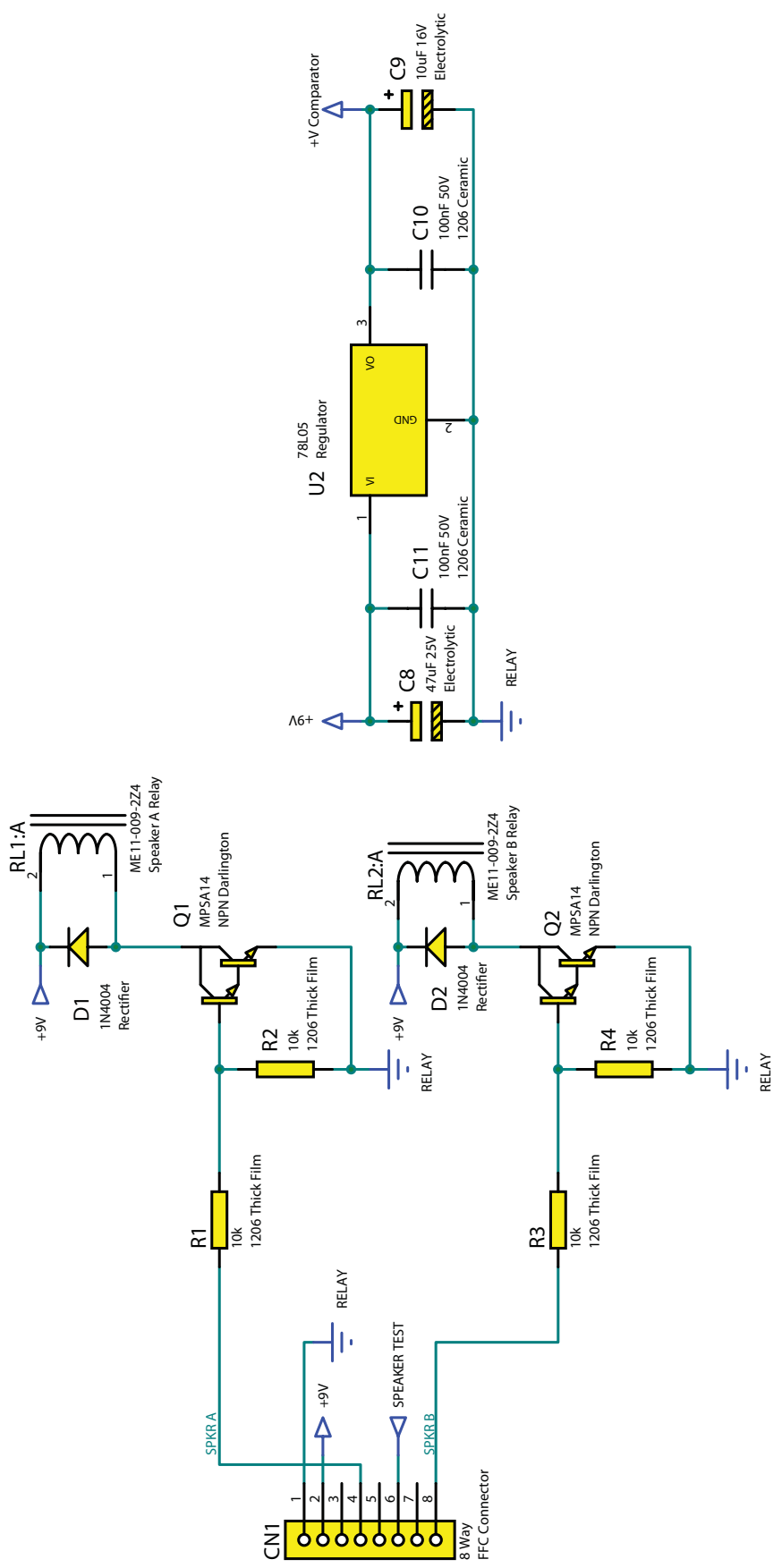
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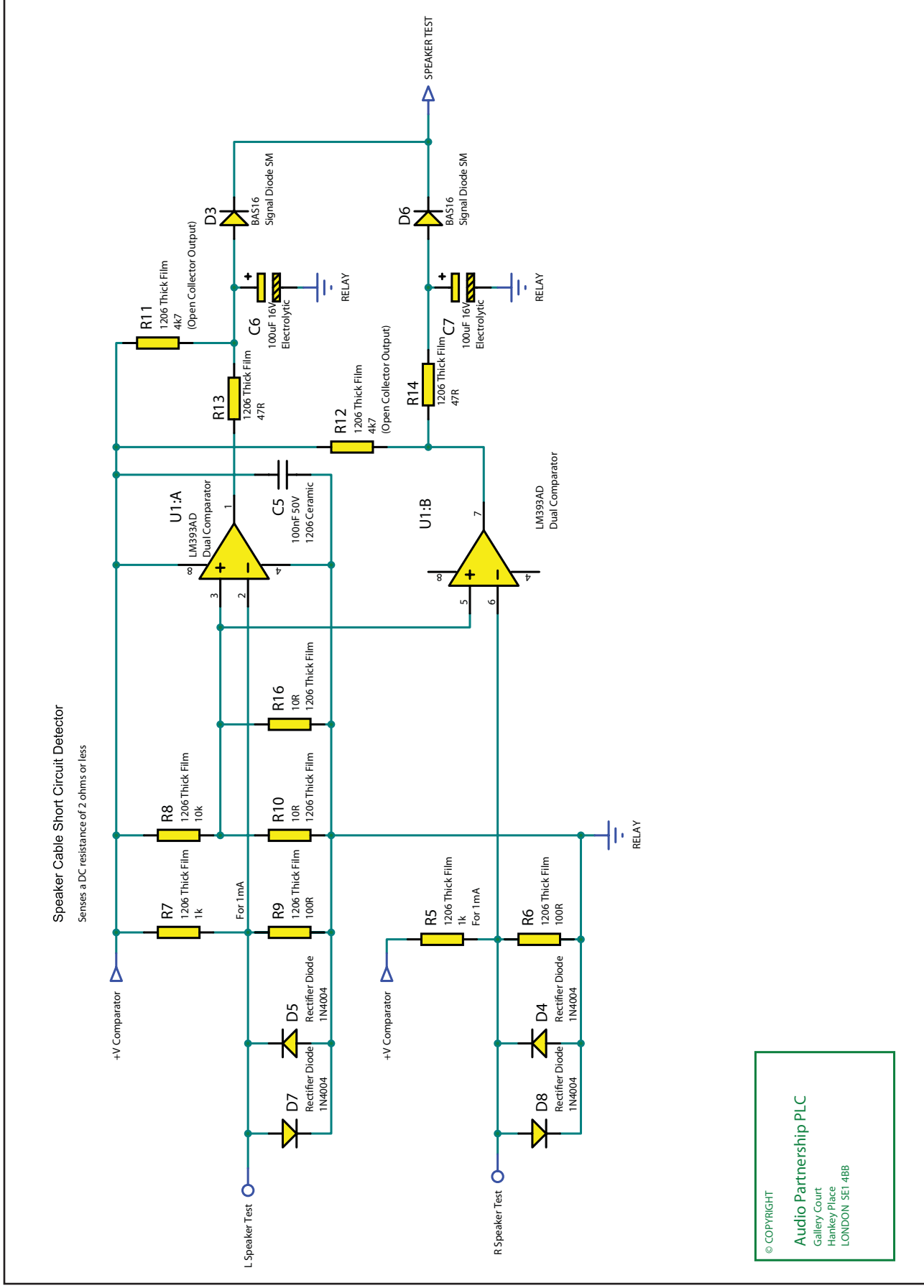
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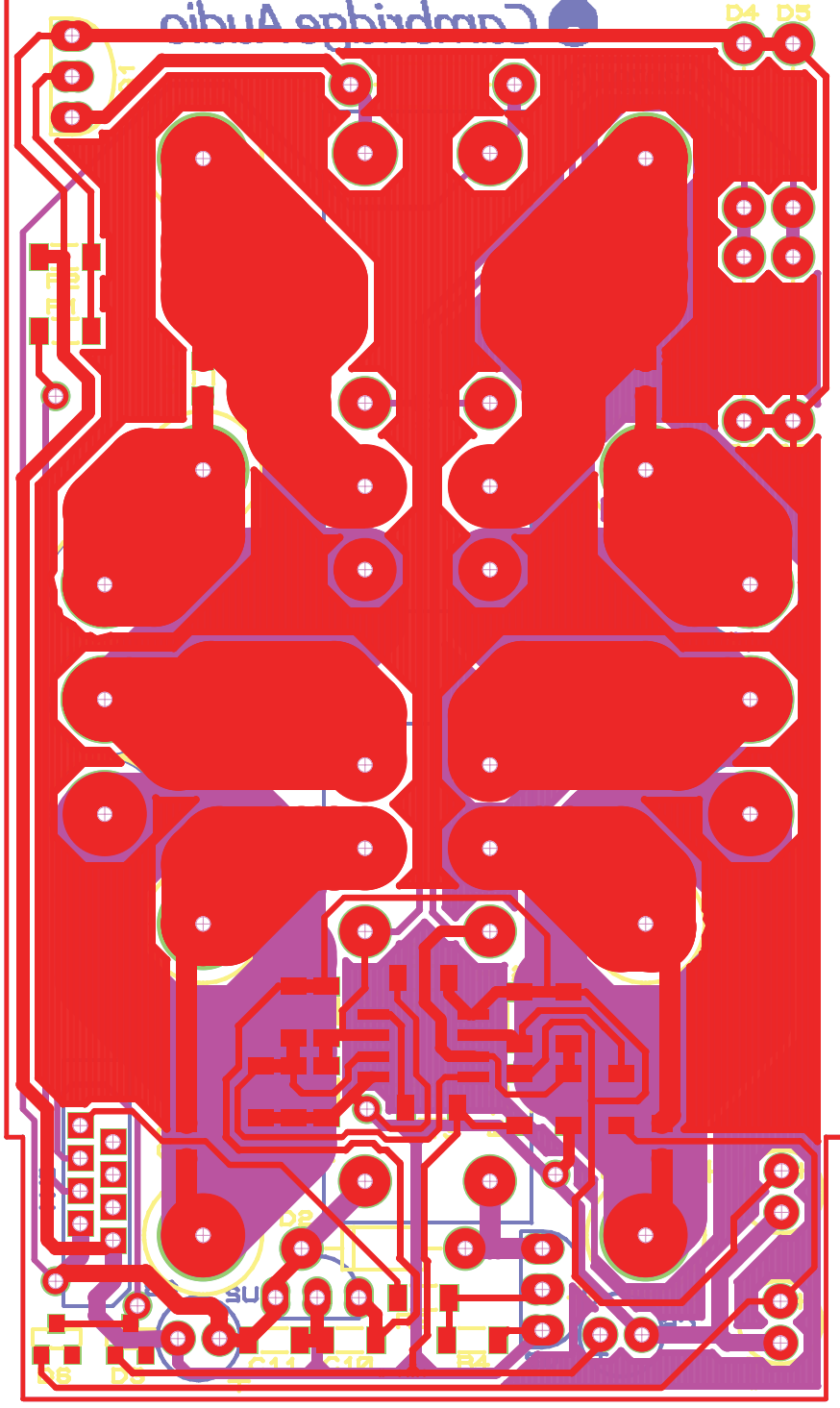
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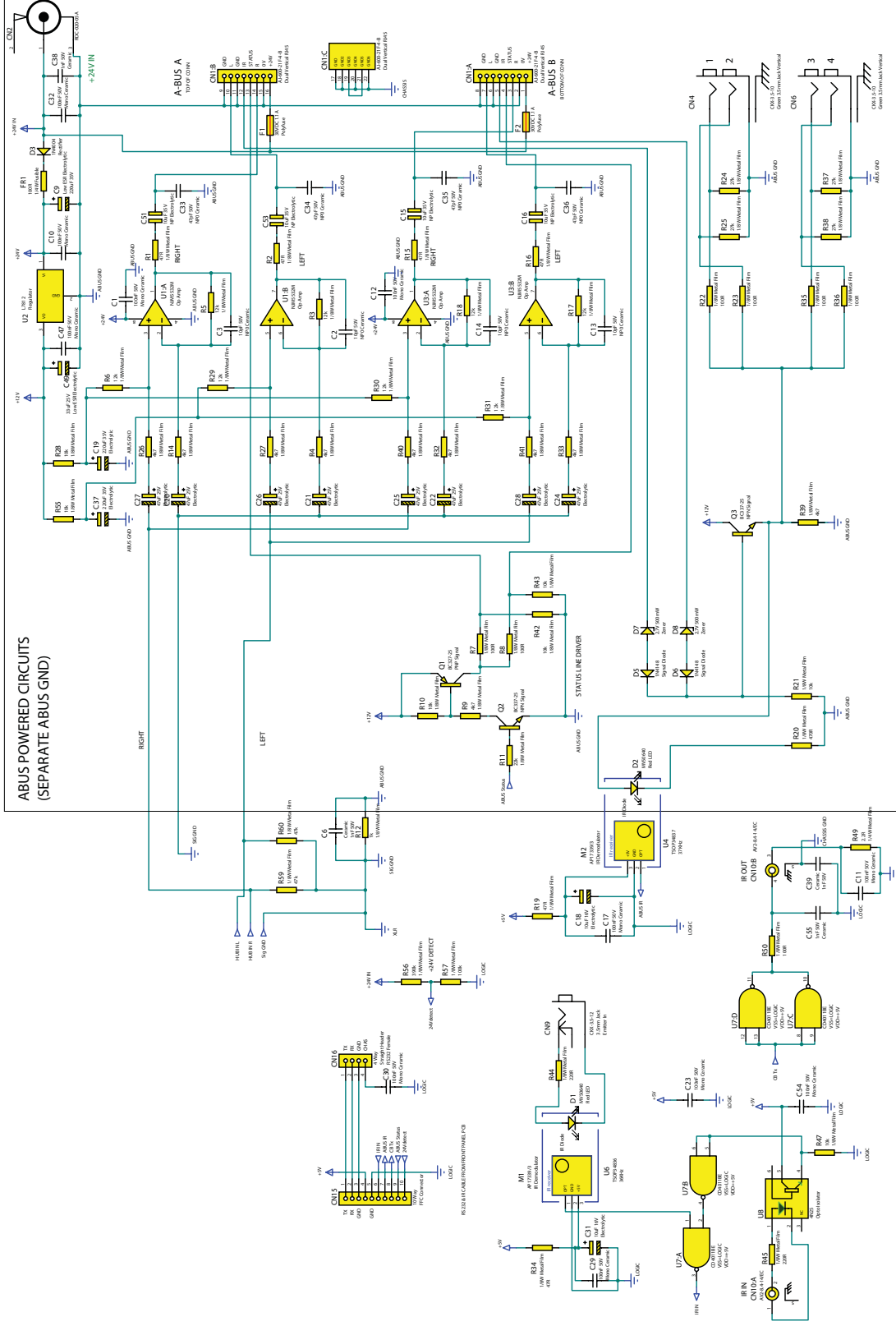


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Cambridge Audio Azur 840A v2 Speaker PCB Assembly BOM - (AP20799/1)						
Value	Description	Qty	Component ID	Factory P/N	Tolerance	AP P/N
RESISTORS						
10R	1206 Thick Film	2	R10, R16		1%	
47R	1206 Thick Film	2	R13, R14		1%	
100R	1206 Thick Film	2	R6, R9		1%	
1k	1206 Thick Film	2	R5, R7		1%	
4k7	1206 Thick Film	2	R11, R12		1%	
10k	1206 Thick Film	5	R1-R4, R8		1%	
CAPACITORS						
330pF 50V	ECHU 0805	4	C1-C4	ECHU1H331JX5		
100nF 50V	1206 Ceramic	3	C5, C10, C11		10%	
10uF 16V	Electrolytic	1	C9		20%	
47uF 25V	Electrolytic	1	C8		20%	
100uF 16V	Electrolytic	2	C6, C7		20%	
CONNECTORS						
8 Way	FFC Connector	1	CN1	D100-SSV-08		
DIODES						
400V 1A	Rectifier	2	D1, D2	IN4004		
75V 300mA	Signal Diode SM	2	D3, D6	BAS16		
400V 1A	Rectifier Diode	4	D4, D5, D7, D8	IN4004		PY319
INTEGRATED CIRCUITS						
	Dual Comparator	1	U1	LM393AD		PY1405
5V 100mA	Regulator	1	U2	78L05		
RELAY						
9V 8A	2P2T Relay	2	RL1, RL2	ME11-009-2Z4		PY1164
TRANSISTORS						
30V 500mA	NPN Darlington	2	Q1, Q2	MPSA14		PY1211

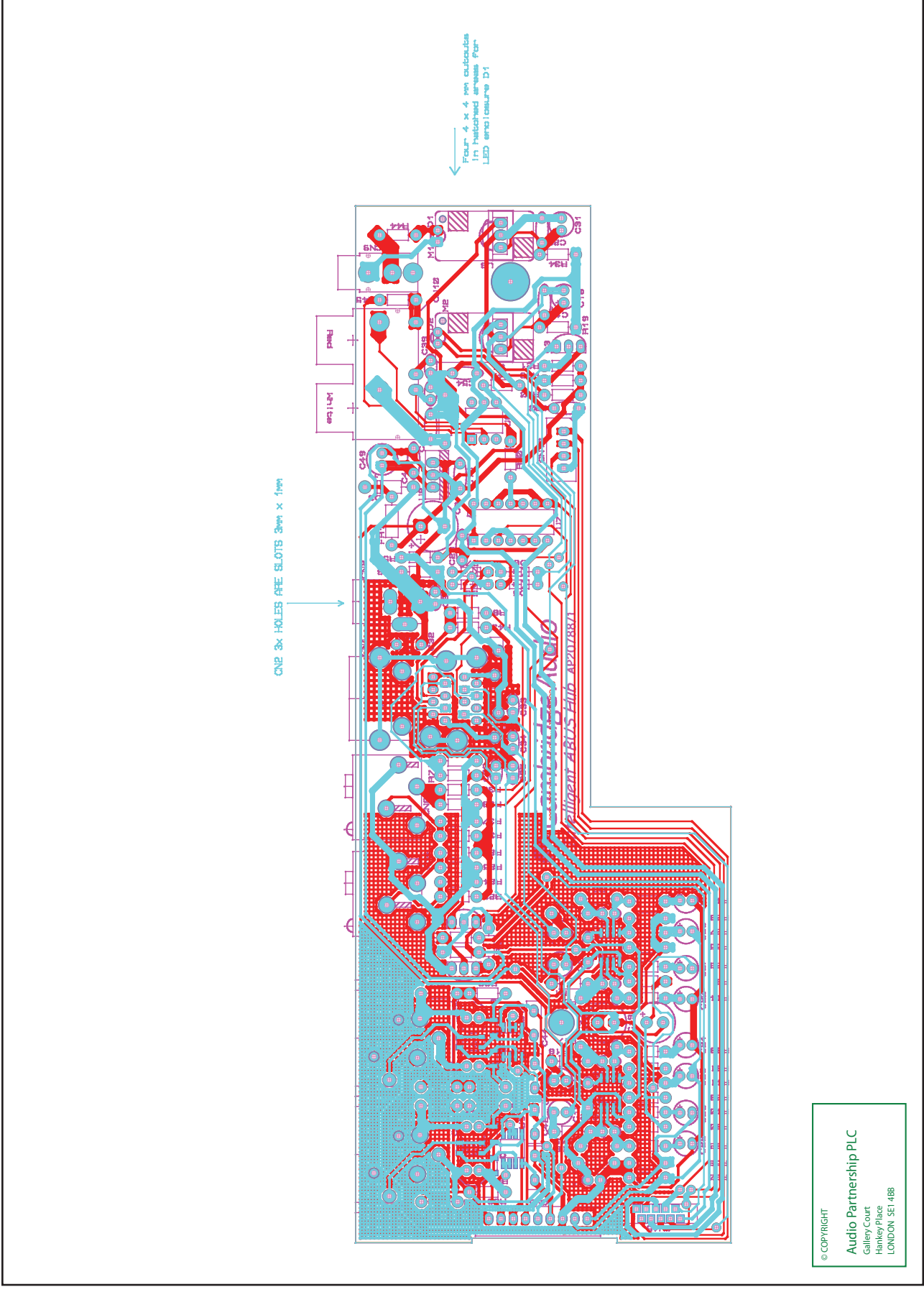
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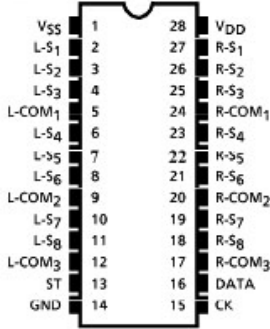
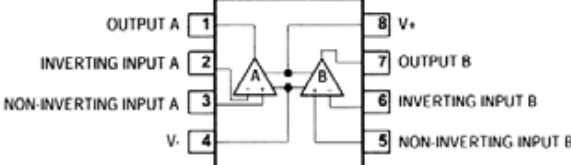
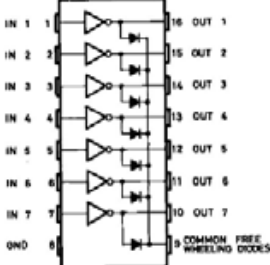
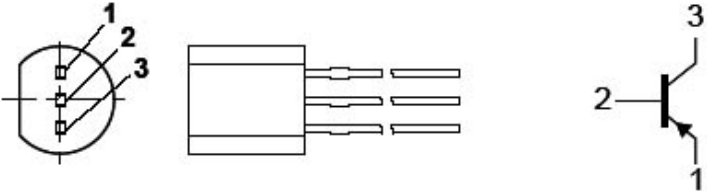
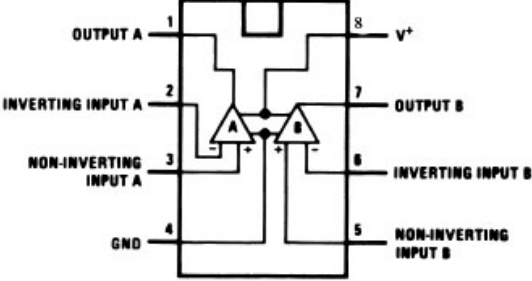
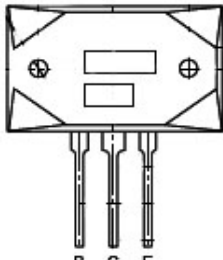
Cambridge Audio Azur 840A v2 ABUS Hub PCB - (AP20790/1)						
Value	Description/Type	Qty	Component ID	Factory P/N	Tolerance	AP P/N
RESISTORS						
2.2R	1/4W Metal Film	1	R49		1%	
47R	1/8W Metal Film	6	R1, R2, R15, R16, R19, R34		1%	
100R	1/4W Fusible	1	FRI		5%	
100R	1/8W Metal Film	7	R7, R8, R22, R23, R35, R36, R50		1%	
220R	1/8W Metal Film	2	R44, R45		1%	
470R	1/8W Metal Film	1	R20		1%	
1k	1/8W Metal Film	1	R12		1%	
1k	1206 Thick Film	4	R62, R65, R68, R71		1%	
4k7	1/8W Metal Film	10	R4, R9, R14, R26, R27, R32, R33, R39-R41		1%	
10k	1/8W Metal Film	7	R10, R21, R28, R42, R43, R47, R55		1%	
12k	1/8W Metal Film	8	R3, R5, R6, R17, R18, R29-R31		1%	
22k	1/8W Metal Film	5	R11, R63, R66, R69, R72		1%	
27k	1/8W Metal Film	4	R24, R25, R37, R38		1%	
47k	1/8W Metal Film	2	R59, R60		1%	
100k	1/8W Metal Film	1	R57		1%	
220k	1/8W Metal Film	4	R61, R64, R67, R70		1%	
390k	1/8W Metal Film	1	R56		1%	
CAPACITORS						
10pF 50V	NP0 Ceramic	4	C2, C3, C13, C14		5%	
47pF 50V	NP0 Ceramic	4	C33-C36		5%	
100pF 50V	0805 NP0 Ceramic	4	C4, C5, C7, C8		5%	
1nF 50V	Ceramic	4	C6, C38, C39, C55		10%	
47nF 63V	Met. Polyester	4	C42-C45		10%	
100nF 50V	Mono Ceramic	11	C1, C10-C12, C17, C23, C29, C30, C32, C47, C54		10%	
10uF 35V	NP Electrolytic	4	C15, C16, C51, C53		20%	
10uF 16V	Electrolytic	2	C18, C31		20%	
33uF 25V	Low ESR Electrolytic	1	C49	LX	20%	
47uF 25V	Electrolytic	8	C20-C22, C24-C28		20%	
47uF 16V	NP Electrolytic	4	C46, C48, C50, C52		20%	
220uF 35V	Low ESR Electrolytic	1	C9	LX	20%	
220uF 35V	Electrolytic	2	C19, C37		20%	
CONNECTORS						
	Dual Vertical RJ45	1	CN1	AJ-600-21F-4-B		
	DC Jack	1	CN2	RDC-020-05A		
	Green 3.5mm Jack Vertical	2	CN4, CN6	CKX-3.5-10		
9 Way	Straight Header	1	CN5	B9B-XH-A		
	Female XLR with Latch	2	CN7, CN8	5033T		
	3.5mm Jack	1	CN9	CKX-3.5-12		
	Horizontal Gold Plated RCA	1	CN10	AV2-8.4-14/EC		
10 Way	FFC Connector	1	CN15	D100-SSV-10		
4 Way	Straight Header	1	CN16	B4B-XH-A		

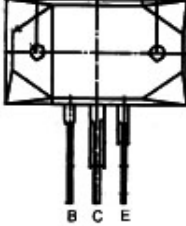
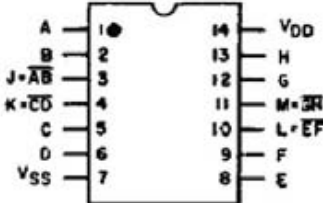
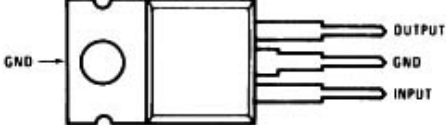
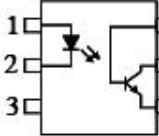


Note: resistors, capacitors and other 'generic' components are not usually stocked by the manufacturer. Please obtain these locally.

Cambridge Audio Azur 840A v2 ABUS Hub PCB - (AP20790/1)						
Value	Description/Type	Qty	Component ID	Factory P/N	Tolerance	AP P/N
DIODES						
	Red LED	2	D1, D2	MV50640		PY962
400V 1A	Rectifier	1	D3	1N4004		
75V 150mA	Signal Diode	2	D5, D6	1N4148		
2.7V 500mW	Zener	2	D7, D8	BZX79C2V7		
INTEGRATED CIRCUITS						
	Op Amp	2	U1, U3	NJM5532M		
12V 1A	Regulator	1	U2	L7812		
37KHz	IR Receiver	1	U4	TSOP34837		PY1007
36KHz	IR Receiver	1	U6	TSOP34836		PY755
Quad 2 Input	NAND Gate	1	U7	CD4011BE		
	Opto Isolator	1	U8	4N25		PY1144
	Dual Audio Op Amp	2	U9, U10	NE5532D		PY1162
MODULES						
	IR Demodulator	2	M1, M2	API7339/3		
TRANSISTORS						
-45V 500mA	PNP Signal	1	Q1	BC327-25		PY219
45V 300mA	NPN Signal	2	Q2, Q3	BC337-25		PY214

Note: resistors, capacitors and other 'generic' components are not usually stocked by the manufacturer. Please obtain these locally.

Cambridge Audio Azur 840A v2 Amplifier IC Pin Layout Details

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<p style="text-align: center;">ULN2003A</p>	
<p style="text-align: center;">BC327</p>	
<p style="text-align: center;">LM393AP</p>	
<p style="text-align: center;">2SA1295</p>	

<p>2SC3264</p>	
<p>CD4011BE</p>	
<p>7812</p>	
<p>OP4N25</p>	
<p>TSOP34837</p>	
<p>TSOP34836</p>	
<p>24FJ64JA008</p>	